

MODES TESTED

- GPRS 850
- GPRS 1900
- CDMA BC0
- CDMA BC1
- CDMA BC10
- UTMS BAND 2
- UTMS BAND 4
- UTMS BAND 5

RESULTS

See the following pages.

8.4.1. GSM

ID:	44366	Date:	3/23/18
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GPRS 850

Limit		824	849	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	824.0364	848.9651		
Extreme (50C)		824.0364	848.9651	32.1	0.038
Extreme (40C)		824.0364	848.9651	28.9	0.035
Extreme (30C)		824.0364	848.9651	22.2	0.026
Extreme (10C)		824.0364	848.9651	25.8	0.031
Extreme (0C)		824.0364	848.9651	23.8	0.028
Extreme (-10C)		824.0364	848.9651	21.1	0.025
Extreme (-20C)		824.0363	848.9651	-56.0	-0.067
Extreme (-30C)		824.0363	848.9651	-50.0	-0.060
20C		15%	824.0364	24.2	0.029
		-15%	824.0364	22.7	0.027
		End Point	824.0364	23.1	0.028

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GPRS 1900

Limit		1850	1910	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1850.0433	1909.9577		
Extreme (50C)		1850.0433	1909.9577	-71.4	-0.038
Extreme (40C)		1850.0433	1909.9577	-73.2	-0.039
Extreme (30C)		1850.0433	1909.9577	-25.5	-0.014
Extreme (10C)		1850.0433	1909.9577	-51.6	-0.027
Extreme (0C)		1850.0433	1909.9577	-65.3	-0.035
Extreme (-10C)		1850.0433	1909.9577	-50.6	-0.027
Extreme (-20C)		1850.0433	1909.9577	-51.7	-0.027
Extreme (-30C)		1850.0433	1909.9577	-41.4	-0.022
20C		15%	1850.0433	1909.9577	-41.4
		-15%	1850.0433	1909.9577	-50.5
		End Point	1850.0433	1909.9577	-43.6

8.4.2. CDMA

ID:	44366	Date:	3/23/18
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CDMA 1xRTT BC0

Limit		824	849	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	824.0152	848.9856		
Extreme (50C)		824.0152	848.9856	7.8	0.009
Extreme (40C)		824.0152	848.9856	-7.8	-0.009
Extreme (30C)		824.0152	848.9856	10.4	0.012
Extreme (10C)		824.0152	848.9856	7.2	0.009
Extreme (0C)		824.0152	848.9856	10.3	0.012
Extreme (-10C)		824.0152	848.9856	5.3	0.006
Extreme (-20C)		824.0152	848.9856	6.3	0.008
Extreme (-30C)		824.0152	848.9856	5.1	0.006
20C	15%	824.0152	848.9856	9.5	0.011
	-15%	824.0152	848.9856	8.2	0.010
	End Point	824.0152	848.9856	10.7	0.013

ID:	44366	Date:	3/23/18
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CDMA 1xRTT BC1

Limit		1850	1910	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1850.5738	1909.4221		
Extreme (50C)		1850.5738	1909.4221	-40.3	-0.021
Extreme (40C)		1850.5738	1909.4221	-30.9	-0.016
Extreme (30C)		1850.5739	1909.4222	61.4	0.033
Extreme (10C)		1850.5738	1909.4221	46.1	0.025
Extreme (0C)		1850.5738	1909.4221	-25.7	-0.014
Extreme (-10C)		1850.5739	1909.4222	54.3	0.029
Extreme (-20C)		1850.5738	1909.4221	45.0	0.024
Extreme (-30C)		1850.5738	1909.4221	34.9	0.019
20C	15%	1850.5739	1909.4222	55.3	0.029
	-15%	1850.5738	1909.4221	41.4	0.022
	End Point	1850.5739	1909.4222	53.7	0.029

ID:	44366	Date:	3/23/18
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CDMA 1xRTT BC10

Limit		816	824	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	816.5325	823.4740		
Extreme (50C)		816.5325	823.4740	22.9	0.028
Extreme (40C)		816.5325	823.4740	9.7	0.012
Extreme (30C)		816.5325	823.4740	14.7	0.018
Extreme (10C)		816.5325	823.4740	-9.5	-0.012
Extreme (0C)		816.5325	823.4740	-8.2	-0.010
Extreme (-10C)		816.5325	823.4740	7.0	0.009
Extreme (-20C)		816.5325	823.4740	-6.7	-0.008
Extreme (-30C)		816.5325	823.4740	11.6	0.014
20C	15%	816.5325	823.4740	11.5	0.014
	-15%	816.5325	823.4740	-9.8	-0.012
	End Point	816.5325	823.4740	12.4	0.015

8.4.3. WCDMA

ID:	44366	Date:	3/23/18
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UMTS REL99 BAND 2

Limit		1850	1910	Delta (Hz)	Frequency Stability (ppm)		
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)				
Temperature	Voltage						
Normal (20C)	Normal	1850.1393	1909.8610				
Extreme (50C)		1850.1392	1909.8610	-45.7	-0.024		
Extreme (40C)		1850.1392	1909.8610	-51.7	-0.028		
Extreme (30C)		1850.1392	1909.8610	-48.6	-0.026		
Extreme (10C)		1850.1392	1909.8610	-44.5	-0.024		
Extreme (0C)		1850.1392	1909.8610	-40.2	-0.021		
Extreme (-10C)		1850.1392	1909.8610	-38.1	-0.020		
Extreme (-20C)		1850.1392	1909.8610	-35.9	-0.019		
Extreme (-30C)		1850.1392	1909.8610	-62.8	-0.033		
20C		15%	1850.1392	1909.8610	-46.3	-0.025	
20C		-15%	1850.1392	1909.8610	-43.7	-0.023	
20C		End Point	1850.1392	1909.8610	-44.5	-0.024	

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UMTS REL99 BAND 4

Limit		1710	1755	Delta (Hz)	Frequency Stability (ppm)		
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)				
Temperature	Voltage						
Normal (20C)	Normal	1710.1293	1754.8712				
Extreme (50C)		1710.1293	1754.8712	16.0	0.009		
Extreme (40C)		1710.1293	1754.8712	16.0	0.009		
Extreme (30C)		1710.1293	1754.8712	21.6	0.012		
Extreme (10C)		1710.1293	1754.8712	22.8	0.013		
Extreme (0C)		1710.1293	1754.8712	20.2	0.012		
Extreme (-10C)		1710.1293	1754.8712	-24.9	-0.014		
Extreme (-20C)		1710.1293	1754.8712	-19.6	-0.011		
Extreme (-30C)		1710.1295	1754.8714	152.7	0.088		
20C		15%	1710.1293	1754.8712	22.2	0.013	
20C		-15%	1710.1293	1754.8712	21.6	0.012	
20C		End Point	1710.1293	1754.8712	23.4	0.014	

ID:	44366	Date:	3/23/18
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UMTS REL99 BAND 5

Limit		824	849	Delta (Hz)	Frequency Stability (ppm)		
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)				
Temperature	Voltage						
Normal (20C)	Normal	824.1295	848.8709	10.9	0.013		
Extreme (50C)		824.1295	848.8709				
Extreme (40C)		824.1295	848.8709				
Extreme (30C)		824.1295	848.8709				
Extreme (10C)		824.1295	848.8709				
Extreme (0C)		824.1295	848.8709				
Extreme (-10C)		824.1295	848.8709				
Extreme (-20C)		824.1295	848.8709				
Extreme (-30C)		824.1295	848.8709				
20C		15%	824.1295	848.8709	10.6	0.013	
		-15%	824.1295	848.8709	-11.2	-0.013	
		End Point	824.1295	848.8709	12.7	0.015	

8.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

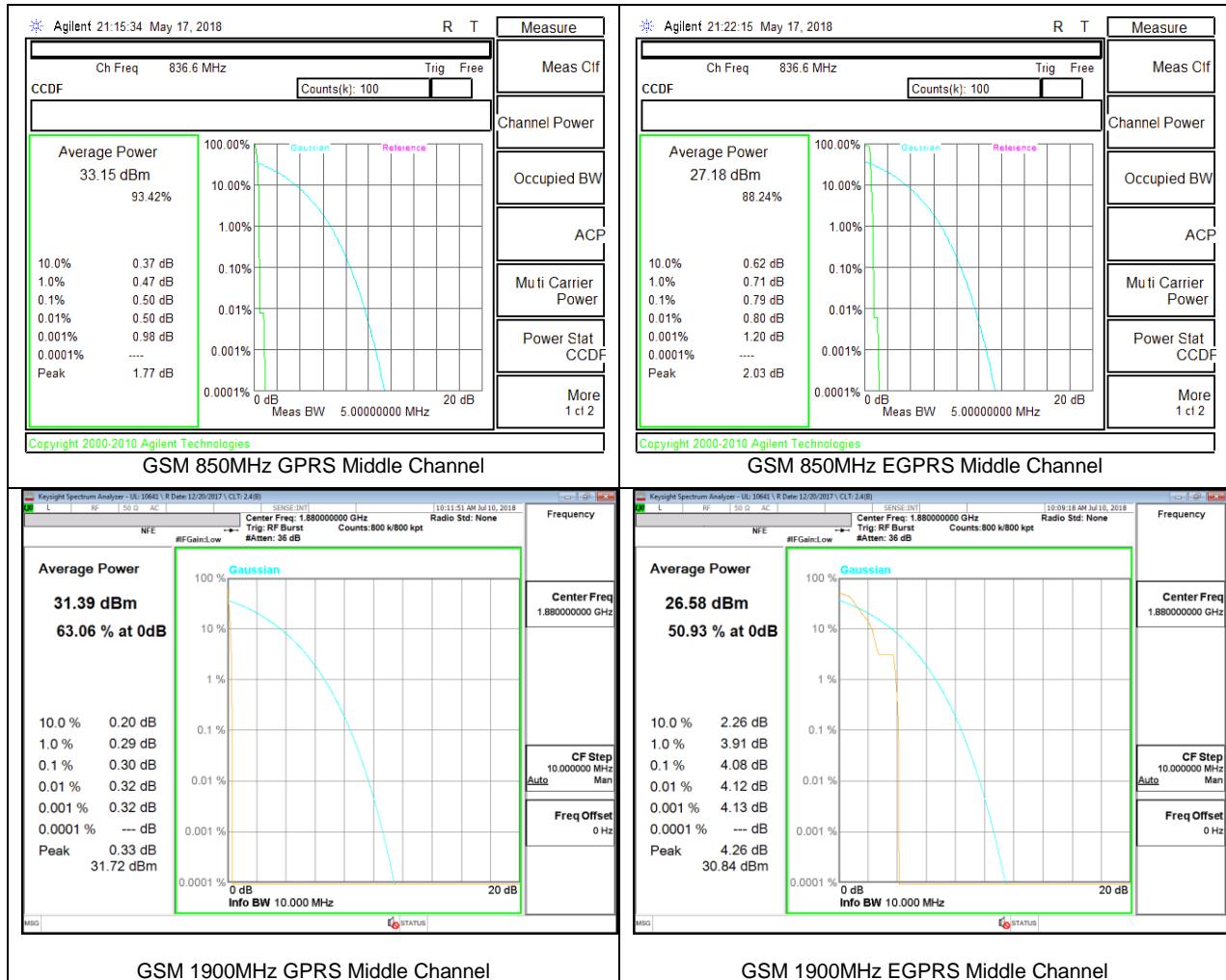
In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

RESULT

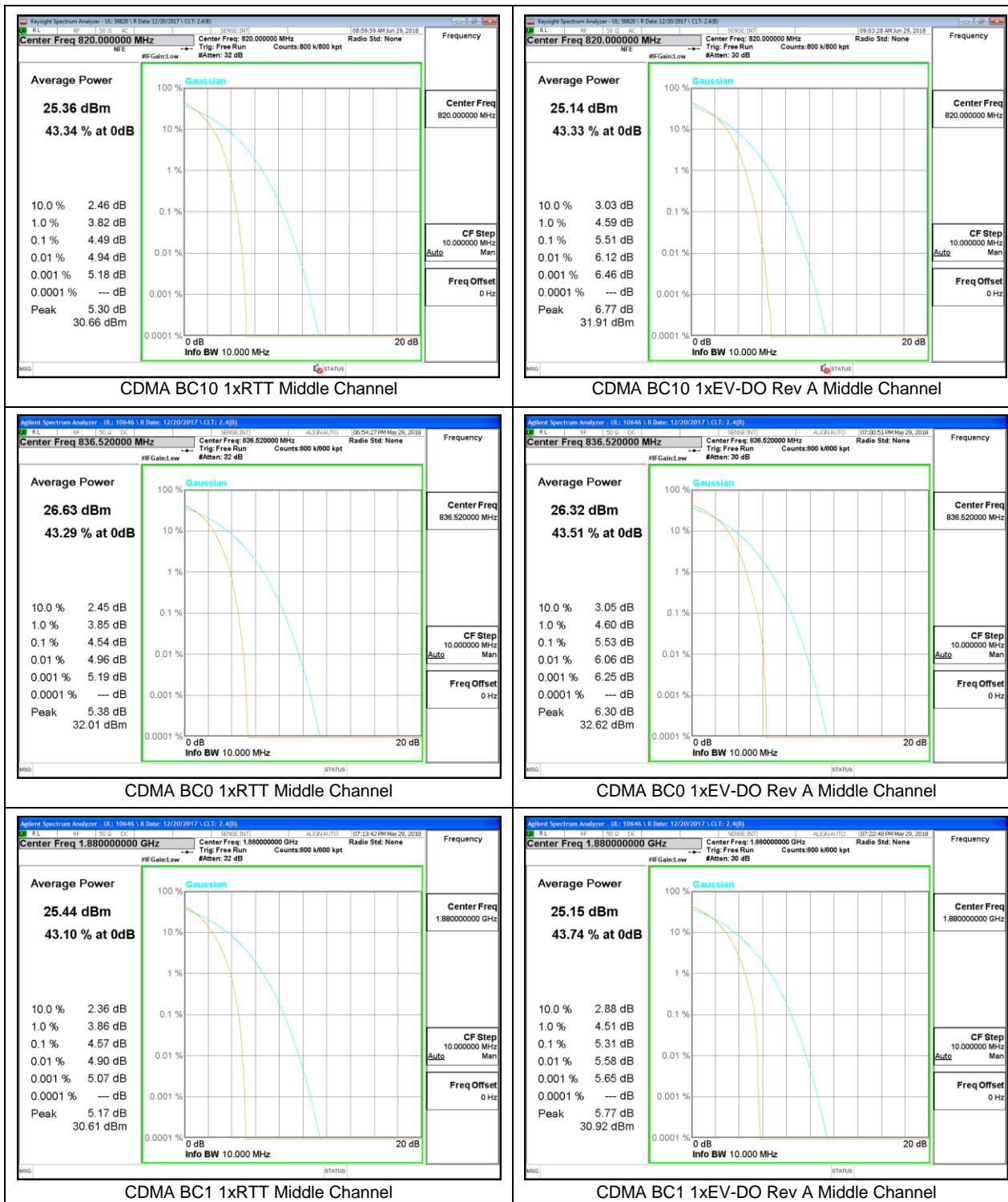
PORT A antenna was used to measure as the worst case. The results from all CCDF plots are passed with 13dB peak-to-average power ratio criteria.

ID:	50820	Date:	MAY 10-17, 2018
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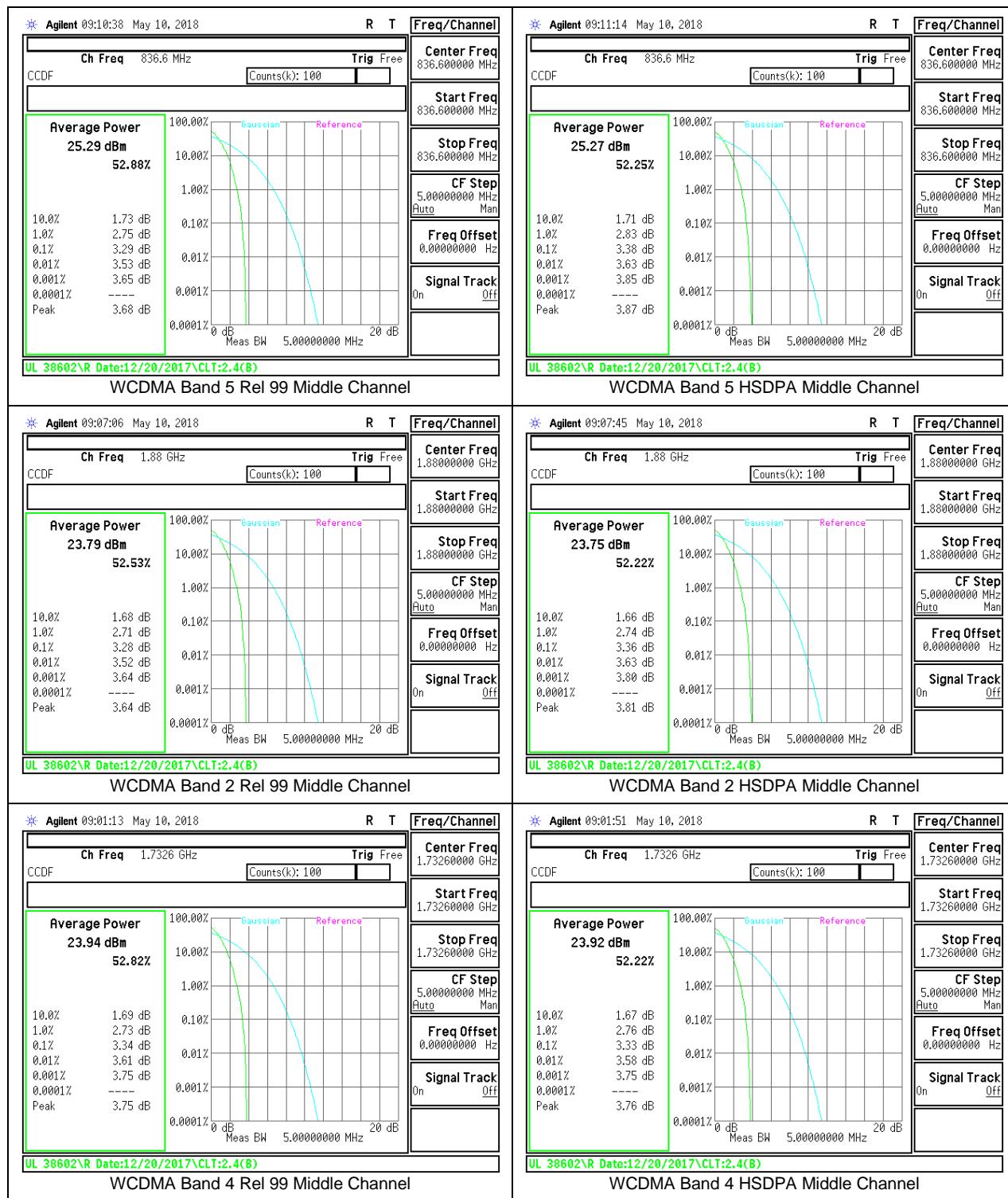
8.5.1. GSM



8.5.2. CDMA



8.5.3. WCDMA



9. RADIATED TEST RESULTS

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53 and §90.691.
IC: RSS132§5.5; RSS133§6.5 and RSS139§6.6

LIMIT

FCC: §22.917(a), §24.238(a), §27.53 (h), §90.691

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log_{10} P$ (dB).

RSS132§5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

- (i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} P$ (watts).
- (ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} P$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

RSS133§6.5

Equipment shall comply with the limits in (i) and (ii) below.

- (i) In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} P$ (watts).
- (ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} P$ (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

RSS139§6.6

- (i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} P$ (watts) dB.
- (ii) After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} P$ (watts) dB.

TEST PROCEDURE

KDB 971168 D01 Section 7

RESULTS

9.1. FIELD STRENGTH OF SPURIOUS RADIATION (Ant 1)

9.1.1. GSM

High Frequency Substitution Measurement UL Fremont Radiated Chamber																					
Company:		Test Equipment:																			
Project #:		Substitution: Horn T59 Substitution, and 8ft SMA Cable																			
Date:		04/17/18																			
Test Engineer:		50893																			
Configuration:		EUT only																			
Mode:		GPRS 850MHz																			
Test Equipment:																					
Substitution: Horn T59 Substitution, and 8ft SMA Cable																					
Chamber			Pre-amplifier		Filter		Limit		EIRP												
3m Chamber F			3m Chamber F		Filter		EIRP														
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes											
1.65	-69.2	H	3.0	-28.0	33.7	1.0	-60.8	-13.0	-47.8												
2.47	-69.5	H	3.0	-23.0	34.1	1.0	-61.2	-13.0	-46.8												
3.30	-69.5	H	3.0	-21.5	34.7	1.0	-64.9	-13.0	-41.9												
1.65	-69.0	V	3.0	-26.6	33.7	1.0	-68.3	-13.0	-45.3												
2.47	-69.1	V	3.0	-24.0	34.1	1.0	-67.8	-13.0	-44.0												
3.30	-69.8	V	3.0	-21.3	34.7	1.0	-66.9	-13.0	-42.0												
Mid Channel (850.6MHz)																					
1.67	-69.7	H	3.0	-28.4	33.7	1.0	-61.1	-13.0	-48.1												
2.51	-69.6	H	3.0	-25.4	34.1	1.0	-68.5	-13.0	-45.5												
3.30	-71.1	H	3.0	-23.0	34.4	1.0	-63.7	-13.0	-40.0												
1.67	-68.5	V	3.0	-25.1	33.7	1.0	-67.8	-13.0	-44.8												
2.51	-69.3	V	3.0	-24.4	34.1	1.0	-67.5	-13.0	-44.5												
3.30	-68.8	V	3.0	-20.2	34.6	1.0	-65.8	-13.0	-40.8												
High Channel (848.8MHz)																					
1.67	-69.2	H	3.0	-27.7	32.7	1.0	-60.4	-13.0	-47.4												
2.55	-66.2	H	3.0	-21.8	34.2	1.0	-64.9	-13.0	-41.9												
3.40	-70.4	H	3.0	-21.7	34.6	1.0	-66.3	-13.0	-42.3												
1.70	-68.4	V	3.0	-24.1	32.7	1.0	-63.7	-13.0	-40.7												
2.55	-69.5	V	3.0	-24.4	34.2	1.0	-67.6	-13.0	-44.6												
3.40	-71.2	V	3.0	-22.3	34.6	1.0	-65.9	-13.0	-42.9												

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GSM 850MHz GPRS

High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company:		Test Equipment:									
Project #:		04/17/18									
Date:		50893									
Test Engineer:		EUT only									
Configuration:		GPRS 1900MHz									
Mode:											
Chamber			Pre-amplifier		Filter		Limit		EIRP		
3m Chamber F			3m Chamber F		Filter		EIRP				
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
3.76	-70.2	H	3.0	-21.2	34.4	1.0	-54.7	-13.0	-41.7		
5.55	-71.0	H	3.0	-17.5	34.1	1.0	-50.7	-13.0	-37.7		
7.40	-72.4	H	3.0	-16.1	33.6	1.0	-48.7	-13.0	-35.7		
5.55	-72.2	V	3.0	-22.1	34.4	1.0	-51.9	-13.0	-42.5		
5.55	-70.1	V	3.0	-19.5	34.1	1.0	-49.6	-13.0	-36.6		
7.40	-72.7	V	3.0	-17.3	33.5	1.0	-48.3	-13.0	-36.8		
Low Channel (1850.2MHz)											
3.76	-70.7	H	3.0	-20.7	34.4	1.0	-54.1	-13.0	-41.1		
5.55	-71.0	H	3.0	-19.1	34.1	1.0	-51.2	-13.0	-38.2		
7.40	-72.7	H	3.0	-17.3	33.5	1.0	-48.7	-13.0	-36.8		
3.76	-71.1	V	3.0	-21.0	34.4	1.0	-54.5	-13.0	-41.5		
5.55	-71.3	V	3.0	-17.6	34.1	1.0	-50.7	-13.0	-37.7		
7.52	-73.6	V	3.0	-17.3	33.5	1.0	-49.8	-13.0	-36.8		
Mid Channel (1850.0)											
3.76	-70.7	H	3.0	-20.7	34.4	1.0	-54.1	-13.0	-41.1		
5.44	-71.1	H	3.0	-18.6	34.1	1.0	-51.2	-13.0	-38.2		
7.52	-72.7	H	3.0	-16.2	33.5	1.0	-48.7	-13.0	-35.7		
3.76	-71.1	V	3.0	-21.0	34.4	1.0	-54.5	-13.0	-41.5		
5.44	-71.3	V	3.0	-17.6	34.1	1.0	-50.7	-13.0	-37.7		
7.52	-73.6	V	3.0	-17.2	33.5	1.0	-49.7	-13.0	-36.7		
High Channel (1800.8MHz)											
3.76	-71.8	H	3.0	-20.7	34.4	1.0	-54.9	-13.0	-41.9		
5.44	-71.8	H	3.0	-18.6	34.1	1.0	-51.2	-13.0	-38.6		
7.52	-72.7	H	3.0	-16.2	33.5	1.0	-48.7	-13.0	-35.7		
3.76	-71.1	V	3.0	-21.0	34.4	1.0	-54.5	-13.0	-41.4		
5.44	-71.3	V	3.0	-17.6	34.1	1.0	-50.7	-13.0	-37.7		
7.52	-73.6	V	3.0	-17.2	33.5	1.0	-49.8	-13.0	-36.8		
High Channel (1800.0)											
3.76	-71.8	H	3.0	-21.8	34.4	1.0	-54.9	-13.0	-41.9		
5.44	-71.8	H	3.0	-18.8	34.1	1.0	-51.2	-13.0	-38.6		
7.52	-72.7	H	3.0	-16.2	33.5	1.0	-48.7	-13.0	-35.7		
3.76	-71.1	V	3.0	-19.8	34.4	1.0	-53.2	-13.0	-40.2		
5.44	-71.3	V	3.0	-17.6	34.1	1.0	-50.3	-13.0	-37.3		
7.52	-73.5	V	3.0	-17.2	33.5	1.0	-49.7	-13.0	-36.7		

Rev. 03.19.15

GSM 1900MHz GPRS

High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company:		Test Equipment:									
Project #:		04/17/18									
Date:		50893									
Test Engineer:		EUT only									
Configuration:		GPRS 1900MHz									
Mode:											
Chamber			Pre-amplifier		Filter		Limit		EIRP		
3m Chamber F			3m Chamber F		Filter		EIRP				
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
3.76	-70.7	H	3.0	-21.8	34.4	1.0	-54.9	-13.0	-41.9		
5.44	-71.1	H	3.0	-18.8	34.1	1.0	-51.2	-13.0	-38.6		
7.52	-72.7	H	3.0	-16.2	33.5	1.0	-48.7	-13.0	-35.7		
3.76	-71.1	V	3.0	-21.0	34.4	1.0	-53.2	-13.0	-40.2		
5.44	-71.3	V	3.0	-17.6	34.1	1.0	-50.3	-13.0	-37.3		
7.52	-73.5	V	3.0	-17.2	33.5	1.0	-49.7	-13.0	-36.7		
Low Channel (1900.2MHz)											
3.76	-71.8	H	3.0	-21.8	34.4	1.0	-54.9	-13.0	-41.9		
5.44	-71.8	H	3.0	-18.8	34.1	1.0	-51.2	-13.0	-38.6		
7.52	-72.7	H	3.0	-16.2	33.5	1.0	-48.7	-13.0	-35.7	</td	

9.1.2. CDMA

High Frequency Substitution Measurement UL Fremont Radiated Chamber																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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(H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	1.63	-59.0	H	3.0	-16.6	37.8	1.0	-53.4	-13.0	-40.4		2.47	-65.4	H	3.0	-26.1	38.4	1.0	-57.1	-13.0	-43.3		3.27	-65.0	H	3.0	-16.1	38.5	1.0	-53.6	-13.0	-46.6		1.63	-58.0	V	3.0	-15.9	37.8	1.0	-52.8	-13.0	-39.8		2.45	-64.6	V	3.0	-19.5	38.4	1.0	-56.9	-13.0	-43.9		3.27	-65.4	V	3.0	-16.8	38.5	1.0	-54.2	-13.0	-41.2		Low Channel (817.5MHz)											1.63	-54.8	H	3.0	-16.0	37.8	1.0	-52.8	-13.0	-39.8		2.46	-63.4	H	3.0	-18.4	38.4	1.0	-55.9	-13.0	-42.9		3.28	-65.4	H	3.0	-16.5	38.5	1.0	-54.0	-13.0	-41.0		1.64	-53.9	V	3.0	-11.8	37.8	1.0	-48.1	-13.0	-35.7		2.46	-65.1	V	3.0	-20.3	38.4	1.0	-57.4	-13.0	-44.4		3.28	-64.4	V	3.0	-15.7	38.5	1.0	-53.2	-13.0	-40.2		Mid Channel (820MHz)											1.63	-54.8	H	3.0	-16.0	37.8	1.0	-52.8	-13.0	-39.8		2.46	-63.4	H	3.0	-18.4	38.4	1.0	-55.9	-13.0	-42.9		3.28	-65.4	H	3.0	-16.5	38.5	1.0	-54.0	-13.0	-41.0		1.64	-53.9	V	3.0	-11.8	37.8	1.0	-48.1	-13.0	-35.7		2.46	-65.1	V	3.0	-20.3	38.4	1.0	-57.4	-13.0	-44.4		3.28	-64.4	V	3.0	-15.7	38.5	1.0	-53.2	-13.0	-40.2		High Channel (822.5MHz)											1.65	-62.2	H	3.0	-19.7	37.8	1.0	-56.5	-13.0	-43.5		2.47	-65.5	H	3.0	-20.5	38.5	1.0	-57.9	-13.0	-44.9		3.29	-65.5	H	3.0	-19.5	38.5	1.0	-54.1	-13.0	-43.1		1.65	-57.8	V	3.0	-15.6	37.8	1.0	-52.5	-13.0	-39.5		2.47	-65.3	V	3.0	-20.2	38.5	1.0	-57.6	-13.0	-44.6		3.29	-65.3	V	3.0	-16.7	38.5	1.0	-54.2	-13.0	-41.2		Rev. 03.19.15											CDMA BC10 1xRTT											High Frequency Substitution Measurement UL Fremont Radiated Chamber											Company: Project #: Date: 05/04/18 Test Engineer: 19406 Configuration: EUT Only Mode: 1xRTT 850MHz											Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable											<table border="1"> <thead> <tr> <th>Chamber</th><th>Pre-amplifier</th><th>Filter</th><th>Limit</th></tr> </thead> <tbody> <tr> <td>3m Chamber E</td><td>3m Chamber E</td><td>Filter</td><td>EIRP</td></tr> </tbody> </table>											Chamber	Pre-amplifier	Filter	Limit	3m Chamber E	3m Chamber E	Filter	EIRP	<table border="1"> <thead> <tr> <th>Frequency (GHz)</th><th>SA reading (dBm)</th><th>Ant. 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(H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	1.63	-62.8	H	3.0	-20.3	37.8	1.0	-57.2	-13.0	-44.2		2.47	-62.9	H	3.0	-17.9	38.5	1.0	-55.3	-13.0	-42.3		3.30	-65.1	H	3.0	-16.3	38.5	1.0	-53.7	-13.0	-40.7		1.65	-55.4	V	3.0	-15.2	37.8	1.0	-50.6	-13.0	-37.1		2.47	-62.1	V	3.0	-20.3	38.5	1.0	-54.7	-13.0	-41.1		3.30	-65.5	V	3.0	-16.8	38.5	1.0	-54.3	-13.0	-41.3		Low Channel (824.5MHz)											1.63	-62.8	H	3.0	-20.3	37.8	1.0	-57.6	-13.0	-44.6		2.47	-62.9	H	3.0	-17.9	38.5	1.0	-55.7	-13.0	-42.7		3.30	-65.1	H	3.0	-16.3	38.5	1.0	-54.1	-13.0	-40.1		1.65	-55.4	V	3.0	-15.2	37.8	1.0	-50.6	-13.0	-37.1		2.47	-62.1	V	3.0	-20.3	38.5	1.0	-54.7	-13.0	-41.1		3.30	-65.5	V	3.0	-16.8	38.5	1.0	-54.3	-13.0	-41.3		Mid Channel (836.5MHz)											1.70	-63.2	H	3.0	-20.7	37.8	1.0	-57.6	-13.0	-44.6		2.51	-65.5	H	3.0	-20.3	38.8	1.0	-57.9	-13.0	-44.9		3.35	-65.7	H	3.0	-19.8	38.8	1.0	-54.1	-13.0	-41.1		1.71	-64.5	V	3.0	-12.3	37.8	1.0	-49.1	-13.0	-36.1		2.51	-64.6	V	3.0	-19.3	38.6	1.0	-56.8	-13.0	-43.8		3.35	-64.7	V	3.0	-15.9	38.5	1.0	-53.4	-13.0	-40.4		High Channel (848.5MHz)											1.70	-63.7	H	3.0	-21.1	37.9	1.0	-57.6	-13.0	-45.0		2.54	-65.5	H	3.0	-20.9	38.8	1.0	-57.7	-13.0	-44.7		3.35	-65.5	H	3.0	-19.5	38.8	1.0	-54.9	-13.0	-41.5		1.70	-64.6	V	3.0	-18.0	37.9	1.0	-54.9	-13.0	-41.9		2.54	-65.7	V	3.0	-20.2	38.6	1.0	-57.8	-13.0	-44.8		3.39	-65.7	V	3.0	-16.8	38.5	1.0	-54.3	-13.0	-41.3		Rev. 03.19.15											CDMA BC0 1xRTT											High Frequency Substitution Measurement UL Fremont Radiated Chamber											Company: Project #: Date: 05/04/18 Test Engineer: 19406 Configuration: EUT only Mode: Rev.0A 1900MHz											Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable											<table border="1"> <thead> <tr> <th>Chamber</th><th>Pre-amplifier</th><th>Filter</th><th>Limit</th></tr> </thead> <tbody> <tr> <td>3m Chamber E</td><td>3m Chamber E</td><td>Filter</td><td>EIRP</td></tr> </tbody> </table>											Chamber	Pre-amplifier	Filter	Limit	3m Chamber E	3m Chamber E	Filter	EIRP	<table border="1"> <thead> <tr> <th>Frequency (GHz)</th><th>SA reading (dBm)</th><th>Ant. 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(H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	1.63	-62.8	H	3.0	-20.3	37.8	1.0	-57.2	-13.0	-44.2		2.47	-62.9	H	3.0	-17.9	38.5	1.0	-55.3	-13.0	-42.3		3.30	-65.1	H	3.0	-16.3	38.5	1.0	-53.7	-13.0	-40.7		1.65	-55.4	V	3.0	-15.2	37.8	1.0	-50.6	-13.0	-37.1		2.47	-62.1	V	3.0	-20.3	38.5	1.0	-54.7	-13.0	-41.1		3.30	-65.5	V	3.0	-16.8	38.5	1.0	-54.3	-13.0	-41.3		Low Channel (824.5MHz)											1.63	-62.8	H	3.0	-20.3	37.8	1.0	-57.6	-13.0	-44.6		2.47	-62.9	H	3.0	-17.9	38.5	1.0	-55.7	-13.0	-42.7		3.30	-65.1	H	3.0	-16.3	38.5	1.0	-54.1	-13.0	-40.1		1.65	-55.4	V	3.0	-15.2	37.8	1.0	-50.6	-13.0	-37.1		2.47	-62.1	V	3.0	-20.3	38.5	1.0	-54.7	-13.0	-41.1		3.30	-65.5	V	3.0	-16.8	38.5	1.0	-54.3	-13.0	-41.3		Mid Channel (836.5MHz)											1.70	-63.2	H	3.0	-20.7	37.8	1.0	-57.6	-13.0	-44.6		2.51	-65.5	H	3.0	-20.3	38.8	1.0	-57.9	-13.0	-44.9		3.35	-65.7	H	3.0	-19.8	38.8	1.0	-54.1	-13.0	-41.1		1.71	-64.5	V	3.0	-12.3	37.8	1.0	-49.1	-13.0	-36.1		2.51	-64.6	V	3.0	-19.3	38.6	1.0	-56.8	-13.0	-43.8		3.35	-64.7	V	3.0	-15.9	38.5	1.0	-53.4	-13.0	-40.4		High Channel (848.5MHz)											1.70	-63.7	H	3.0	-21.1	37.9	1.0	-57.6	-13.0	-45.0		2.54	-65.5	H	3.0	-20.9	38.8	1.0	-57.7	-13.0	-44.7		3.35	-65.5	H	3.0	-19.5	38.8	1.0	-54.9	-13.0	-41.5		1.70	-64.6	V	3.0	-18.0	37.9	1.0	-54.9	-13.0	-41.9		2.54	-65.7	V	3.0	-20.2	38.6	1.0	-57.8	-13.0	-44.8		3.39	-65.7	V	3.0	-16.8	38.5	1.0	-54.3	-13.0	-41.3		Rev. 03.19.15											CDMA BC0 1xRTT											High Frequency Substitution Measurement UL Fremont Radiated Chamber											Company: Project #: Date: 05/04/18 Test Engineer: 19406 Configuration: EUT only Mode: Rev.0A 1900MHz											Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable											<table border="1"> <thead> <tr> <th>Chamber</th><th>Pre-amplifier</th><th>Filter</th><th>Limit</th></tr> </thead> <tbody> <tr> <td>3m Chamber E</td><td>3m Chamber E</td><td>Filter</td><td>EIRP</td></tr> </tbody> </table>											Chamber	Pre-amplifier	Filter	Limit	3m Chamber E	3m Chamber E	Filter	EIRP	<table border="1"> <thead> <tr> <th>Frequency (GHz)</th><th>SA reading (dBm)</th><th>Ant. 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(H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	1.70	-63.2	H	3.0	-21.1	37.8	1.0	-57.6	-13.0	-45.0		2.54	-65.5	H	3.0	-20.9	38.8	1.0	-57.7	-13.0	-44.7		3.35	-65.5	H	3.0	-19.5	38.8	1.0	-54.9	-13.0	-41.5		1.71	-64.5	V	3.0	-12.3	37.8	1.0	-49.1	-13.0	-36.1		2.51	-64.6	V	3.0	-19.3	38.6	1.0	-56.8	-13.0	-43.8		3.35	-64.7	V	3.0	-15.9	38.5	1.0	-53.4	-13.0	-40.4		Low Channel (1951.5MHz)											1.70	-62.8	H	3.0	-12.5	38.8	1.0	-50.1	-13.0	-37.1		2.55	-63.8	H	3.0	-17.0	38.8	1.0	-47.4	-13.0	-34.4		3.41	-64.4	H	3.0	-6.7	37.8	1.0	-45.5	-13.0	-30.5		1.71	-64.5	V	3.0	-11.4	38.8	1.0	-45.1	-13.0	-30.5		2.55	-64.8	V	3.0	-11.1	38.8	1.0	-48.7	-13.0	-35.7		3.41	-64.8	V	3.0	-6.7	37.8	1.0	-45.5	-13.0	-32.5		Mid Channel (1980MHz)											1.70	-62.8	H	3.0	-11.8	38.8	1.0	-49.5	-13.0	-36.5		2.55	-63.8	H	3.0	-16.3	38.8	1.0	-47.1	-13.0	-34.1		3.42	-64.4	H	3.0	-10.9	37.7	1.0	-47.0	-13.0	-32.9		1.70	-64.5	V	3.0	-11.8	38.8	1.0	-48.6	-13.0	-35.6		2.55	-64.8	V	3.0	-11.5	38.5	1.0	-48.6	-13.0	-35.6		3.42	-64.8	V	3.0	-6.2	37.7	1.0	-47.0	-13.0	-32.8		High Channel (1980.5MHz)											1.70	-62.8	H	3.0	-11.6	38.7	1.0	-49.2	-13.0	-36.2		2.55	-63.8	H	3.0	-9.4	38.5	1.0	-46.9	-13.0	-33.9		3.42	-64.4	H	3.0	-17.7	38.7	1.0	-48.1	-13.0	-35.1		1.70	-64.5	V	3.0	-11.0	38.7	1.0	-48.7	-13.0	-35.7		2.55	-64.8	V	3.0	-11.0	38.5	1.0	-46.7	-13.0	-33.7		3.42	-64.8	V	3.0	-6.1	37.7	1.0	-47.0	-13.0	-32.7		Rev. 03.19.15											CDMA BC1 1xRTT											High Frequency Substitution Measurement UL Fremont Radiated Chamber											Company: Project #: Date: 05/04/18 Test Engineer: 19406 Configuration: EUT only Mode: Rev.0A 1900MHz											Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable											<table border="1"> <thead> <tr> <th>Chamber</th><th>Pre-amplifier</th><th>Filter</th><th>Limit</th></tr> </thead> <tbody> <tr> <td>3m Chamber E</td><td>3m Chamber E</td><td>Filter</td><td>EIRP</td></tr> </tbody> </table>											Chamber	Pre-amplifier	Filter	Limit	3m Chamber E	3m Chamber E	Filter	EIRP	<table border="1"> </table>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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9.1.3. WCDMA

High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company: Project #: 05/01/18 Date: 44410 Test Engineer: EUT Only Configuration: Mode: REL 99, 850MHz		High Frequency Substitution Measurement UL Fremont Radiated Chamber									
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit		Chamber		Pre-amplifier	
3m Chamber E	3m Chamber E	Filter	Filter	EIRP	EIRP	Filter	Filter	3m Chamber E	3m Chamber E	Filter	EIRP
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (826.4MHz)											
1.65	-65.5	H	3.0	-23.0	37.8	1.0	-58.9	-13.0	-48.9		
2.48	-44.4	H	3.0	-19.4	38.5	1.0	-56.9	-13.0	-43.9		
3.31	-63.9	H	3.0	-14.9	38.5	1.0	-52.4	-13.0	-39.4		
1.65	-65.7	V	3.0	-23.5	37.8	1.0	-60.4	-13.0	-47.4		
2.48	-68.0	V	3.0	-20.7	38.5	1.0	-58.2	-13.0	-45.2		
3.31	-64.8	V	3.0	-16.0	38.5	1.0	-53.5	-13.0	-46.5		
Mid Channel (836.8MHz)											
1.67	-67.4	H	3.0	-24.9	37.8	1.0	-61.7	-13.0	-48.7		
2.51	-65.5	H	3.0	-20.3	38.6	1.0	-57.9	-13.0	-44.9		
3.35	-66.0	H	3.0	-17.0	38.5	1.0	-54.5	-13.0	-41.5		
1.67	-68.1	V	3.0	-24.2	37.8	1.0	-61.5	-13.0	-48.3		
2.51	-65.6	V	3.0	-20.2	38.6	1.0	-57.8	-13.0	-44.8		
3.35	-64.9	V	3.0	-16.1	38.5	1.0	-53.5	-13.0	-40.5		
High Channel (846.8MHz)											
1.69	-66.0	H	3.0	-23.5	37.9	1.0	-60.3	-13.0	-47.3		
2.54	-64.6	H	3.0	-19.2	38.8	1.0	-56.8	-13.0	-43.8		
3.39	-64.3	H	3.0	-15.9	38.5	1.0	-53.3	-13.0	-40.3		
1.69	-66.2	V	3.0	-23.9	37.9	1.0	-60.7	-13.0	-47.7		
2.54	-65.0	V	3.0	-19.5	38.6	1.0	-57.1	-13.0	-44.1		
3.39	-66.0	V	3.0	-17.0	38.5	1.0	-54.5	-13.0	-41.5		
Rev. 03.19.15											
WCDMA Band 5 Rel 99											
High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company: Project #: 05/01/18 Date: 44410 Test Engineer: EUT Only Configuration: Mode: REL 99, 1900MHz		High Frequency Substitution Measurement UL Fremont Radiated Chamber									
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit		Chamber		Pre-amplifier	
3m Chamber E	3m Chamber E	Filter	Filter	EIRP	EIRP	Filter	Filter	3m Chamber E	3m Chamber E	Filter	EIRP
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (1852.4MHz)											
3.70	-42.2	H	3.0	-11.2	38.6	1.0	-49.8	-13.0	-36.8		
5.56	-65.5	H	3.0	-11.5	38.6	1.0	-49.9	-13.0	-36.6		
7.41	-61.1	H	3.0	-8.0	37.9	1.0	-53.0	-13.0	-33.3		
3.70	-42.5	V	3.0	-12.8	38.6	1.0	-50.2	-13.0	-37.2		
5.55	-64.2	V	3.0	-10.4	38.6	1.0	-48.0	-13.0	-35.0		
7.42	-66.5	V	3.0	-9.0	37.8	1.0	-45.8	-13.0	-32.8		
Mid Channel (1880MHz)											
3.76	-61.1	H	3.0	-11.0	38.6	1.0	-48.7	-13.0	-35.7		
5.54	-64.2	H	3.0	-8.0	38.5	1.0	-48.1	-13.0	-34.3		
7.52	-65.7	H	3.0	-7.8	37.7	1.0	-44.6	-13.0	-31.6		
3.76	-62.9	V	3.0	-12.9	38.6	1.0	-50.5	-13.0	-37.5		
5.64	-63.8	V	3.0	-10.0	38.5	1.0	-47.5	-13.0	-34.5		
7.52	-66.2	V	3.0	-8.1	37.7	1.0	-45.2	-13.0	-32.9		
High Channel (1907MHz)											
3.70	-61.8	H	3.0	-11.5	38.7	1.0	-48.2	-13.0	-36.2		
5.72	-65.0	H	3.0	-10.6	38.5	1.0	-48.1	-13.0	-35.1		
7.66	-66.2	H	3.0	-8.2	37.7	1.0	-44.9	-13.0	-31.9		
3.70	-63.7	V	3.0	-10.4	38.7	1.0	-48.8	-13.0	-36.7		
5.72	-63.8	V	3.0	-9.7	38.5	1.0	-47.2	-13.0	-34.2		
7.63	-66.7	V	3.0	-8.0	37.7	1.0	-45.7	-13.0	-32.7		
Rev. 03.19.15											
WCDMA Band 2 Rel 99											
High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company: Project #: 05/01/18 Date: 44410 Test Engineer: EUT Only Configuration: Mode: REL 99, 1700MHz		High Frequency Substitution Measurement UL Fremont Radiated Chamber									
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit		Chamber		Pre-amplifier	
3m Chamber E	3m Chamber E	Filter	Filter	EIRP	EIRP	Filter	Filter	3m Chamber E	3m Chamber E	Filter	EIRP
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (1712.4MHz)											
3.42	-66.4	H	3.0	-17.1	38.5	1.0	-54.7	-13.0	-41.7		
5.14	-44.5	H	3.0	-11.4	38.7	1.0	-48.1	-13.0	-36.1		
6.85	-65.2	H	3.0	-10.1	38.1	1.0	-53.6	-13.0	-34.6		
3.42	-66.5	V	3.0	-17.5	38.5	1.0	-55.0	-13.0	-42.0		
5.14	-63.7	V	3.0	-10.9	38.7	1.0	-48.8	-13.0	-35.6		
6.85	-65.6	V	3.0	-9.6	38.1	1.0	-46.1	-13.0	-32.7		
Mid Channel (1732.4MHz)											
3.47	-67.3	H	3.0	-17.9	38.5	1.0	-55.4	-13.0	-42.4		
5.20	-42.8	H	3.0	-9.5	38.7	1.0	-47.2	-13.0	-34.2		
6.93	-65.9	H	3.0	-16.1	38.7	1.0	-53.7	-13.0	-41.7		
3.47	-66.3	V	3.0	-17.1	38.5	1.0	-54.7	-13.0	-41.7		
5.20	-44.4	V	3.0	-11.4	38.7	1.0	-49.1	-13.0	-36.1		
6.93	-65.4	V	3.0	-9.6	38.1	1.0	-46.1	-13.0	-33.6		
High Channel (1752.4MHz)											
3.51	-65.1	H	3.0	-15.7	38.5	1.0	-53.3	-13.0	-40.3		
5.26	-45.4	H	3.0	-11.5	38.7	1.0	-49.1	-13.0	-36.1		
7.01	-65.1	H	3.0	-7.9	38.1	1.0	-43.1	-13.0	-31.9		
3.51	-64.7	V	3.0	-15.4	38.5	1.0	-52.9	-13.0	-39.9		
5.26	-45.2	V	3.0	-12.2	38.7	1.0	-49.8	-13.0	-36.8		
7.01	-65.5	V	3.0	-8.8	38.1	1.0	-45.6	-13.0	-32.6		
Rev. 03.19.15											
WCDMA Band 4 Rel 99											
High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company: Project #: 05/01/18 Date: 44410 Test Engineer: EUT Only Configuration: Mode: HSDPA 1700MHz		High Frequency Substitution Measurement UL Fremont Radiated Chamber									
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit		Chamber		Pre-amplifier	
3m Chamber E	3m Chamber E	Filter	Filter	EIRP	EIRP	Filter	Filter	3m Chamber E	3m Chamber E	Filter	EIRP
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (1752.4MHz)											
3.47	-66.7	H	3.0	-17.4	38.5	1.0	-54.9	-13.0	-41.9		
5.14	-33.8	H	3.0	-10.4	38.7	1.0	-48.4	-13.0	-34.1		
6.85	-65.2	H	3.0	-8.9	38.1	1.0	-47.0	-13.0	-34.0		
3.42	-66.5	V	3.0	-17.5	38.5	1.0	-55.0	-13.0	-42.0		
5.14	-33.5	V	3.0	-10.7	38.7	1.0	-48.4	-13.0	-35.4		
6.85	-66.1	V	3.0	-8.4	38.1	1.0	-46.6	-13.0	-33.6		
Mid Channel (1752.4MHz)											
3.47	-66.7	H	3.0	-17.3	38.5	1.0	-54.8	-13.0	-41.8		
5.20	-33.8	H	3.0	-10.5	38.7	1.0	-48.2	-13.0	-35.2		
6.93	-65.2	H	3.0	-8.4	38.1	1.0	-47.3	-13.0	-34.7		
3.47	-66.2	V	3.0	-17.0	38.5	1.0	-54.5	-13.0	-41.5		
5.20	-34.7	V	3.0	-8.8	38.7	1.0	-48.5	-13.0	-35.5		

9.2. FIELD STRENGTH OF SPURIOUS RADIATION (Ant 2)

9.2.1. GSM

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber F	-	3m Chamber F	-	Filter	-	EIRP	-			
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (924.2MHz)										
1.65	-56.6	H	3.0	-15.6	33.7	1.0	-48.4	-13.0	-35.4	
2.47	-68.0	H	3.0	-23.9	34.1	1.0	-57.0	-13.0	-44.0	
3.30	-68.2	H	3.0	-20.0	34.7	1.0	-53.6	-13.0	-46.6	
1.65	-56.2	V	3.0	-7.7	33.7	1.0	-48.4	-13.0	-35.4	
2.47	-69.0	V	3.0	-24.3	34.1	1.0	-57.4	-13.0	-44.4	
3.30	-69.8	V	3.0	-21.3	34.7	1.0	-55.0	-13.0	-42.0	
Mid Channel (836.8MHz)										
1.67	-55.5	H	3.0	-14.2	33.7	1.0	-48.8	-13.0	-33.9	
2.50	-69.6	H	3.0	-24.6	34.1	1.0	-54.7	-13.0	-44.9	
3.35	-69.5	H	3.0	-21.1	34.6	1.0	-54.7	-13.0	-41.7	
1.67	-51.3	V	3.0	-7.7	33.7	1.0	-46.4	-13.0	-27.4	
2.51	-68.2	V	3.0	-23.4	34.1	1.0	-53.6	-13.0	-34.9	
3.35	-69.0	V	3.0	-20.3	34.6	1.0	-54.0	-13.0	-41.0	
High Channel (948.8MHz)										
1.70	-58.6	H	3.0	-17.1	33.7	1.0	-49.8	-13.0	-36.8	
2.35	-67.8	H	3.0	-23.4	34.2	1.0	-56.6	-13.0	-43.6	
3.40	-68.5	H	3.0	-20.3	34.6	1.0	-53.6	-13.0	-40.3	
1.70	-44.8	V	3.0	-1.4	33.7	1.0	-34.0	-13.0	-21.0	
2.35	-69.2	V	3.0	-24.2	34.2	1.0	-57.3	-13.0	-44.3	
3.40	-68.3	V	3.0	-19.8	34.8	1.0	-53.1	-13.0	-46.1	
Rev. 03.19.15										
GSM 850MHz GPRS										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber G	-	3m Chamber G	-	Filter	-	EIRP	-			
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1956.2MHz)										
3.70	-42.0	H	3.0	-15.3	36.2	1.0	-50.5	-13.0	-37.5	
5.55	-70.5	H	3.0	-20.2	36.1	1.0	-55.3	-13.0	-42.3	
7.40	-72.5	H	3.0	-19.1	35.2	1.0	-53.3	-13.0	-40.3	
3.70	-49.4	V	3.0	-13.3	36.2	1.0	-49.7	-13.0	-35.5	
5.55	-69.6	V	3.0	-19.5	36.1	1.0	-54.6	-13.0	-41.6	
7.40	-72.5	V	3.0	-19.5	35.2	1.0	-53.7	-13.0	-40.7	
Mid Channel (1988.0MHz)										
3.76	-61.3	H	3.0	-14.4	36.2	1.0	-49.6	-13.0	-36.6	
5.54	-70.3	H	3.0	-20.1	36.1	1.0	-55.1	-13.0	-42.1	
7.52	-72.7	H	3.0	-19.5	35.1	1.0	-53.6	-13.0	-40.6	
3.76	-60.2	V	3.0	-12.9	36.2	1.0	-48.0	-13.0	-35.0	
5.64	-70.8	V	3.0	-20.1	36.1	1.0	-55.2	-13.0	-42.2	
7.52	-71.8	V	3.0	-18.6	35.1	1.0	-53.9	-13.0	-35.9	
High Channel (1909.8MHz)										
3.82	-64.0	H	3.0	-17.0	36.1	1.0	-52.1	-13.0	-38.1	
5.73	-70.9	H	3.0	-20.3	36.1	1.0	-55.3	-13.0	-42.3	
7.54	-72.9	H	3.0	-19.7	35.1	1.0	-53.8	-13.0	-40.8	
3.82	-63.4	V	3.0	-11.9	36.1	1.0	-51.1	-13.0	-38.1	
5.73	-70.9	V	3.0	-20.5	36.1	1.0	-55.6	-13.0	-42.6	
7.54	-72.7	V	3.0	-19.5	35.1	1.0	-53.7	-13.0	-40.7	
Rev. 03.19.15										
GSM 1900MHz GPRS										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber F	-	3m Chamber F	-	Filter	-	EIRP	-			
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1956.2MHz)										
3.70	-41.6	H	3.0	-11.9	34.4	1.0	-45.3	-13.0	-32.3	
5.55	-69.2	H	3.0	-15.8	34.1	1.0	-48.9	-13.0	-35.9	
7.40	-70.8	H	3.0	-20.3	34.4	1.0	-53.8	-13.0	-40.8	
3.70	-59.8	V	3.0	-8.9	34.4	1.0	-43.7	-13.0	-30.4	
5.55	-70.6	V	3.0	-17.0	34.1	1.0	-50.1	-13.0	-37.1	
7.40	-71.7	V	3.0	-15.6	33.6	1.0	-48.2	-13.0	-35.2	
Mid Channel (1988.0MHz)										
3.76	-65.7	H	3.0	-15.5	34.4	1.0	-48.9	-13.0	-35.9	
5.73	-70.9	H	3.0	-17.2	34.1	1.0	-50.3	-13.0	-37.3	
7.54	-72.1	H	3.0	-15.2	33.6	1.0	-48.7	-13.0	-35.3	
3.76	-60.3	V	3.0	-10.3	34.4	1.0	-43.7	-13.0	-30.7	
5.64	-70.1	V	3.0	-16.4	34.1	1.0	-49.3	-13.0	-36.5	
7.52	-71.7	V	3.0	-14.4	33.5	1.0	-47.9	-13.0	-34.9	
High Channel (1909.8MHz)										
3.82	-65.7	H	3.0	-15.5	34.4	1.0	-48.9	-13.0	-35.9	
5.73	-70.9	H	3.0	-17.2	34.1	1.0	-50.3	-13.0	-37.3	
7.54	-72.1	H	3.0	-15.2	33.6	1.0	-48.7	-13.0	-35.3	
3.82	-64.7	V	3.0	-14.5	34.4	1.0	-47.8	-13.0	-34.8	
5.73	-70.1	V	3.0	-16.3	34.1	1.0	-49.4	-13.0	-36.4	
7.54	-72.9	V	3.0	-16.5	33.5	1.0	-49.0	-13.0	-36.0	
Rev. 03.19.15										
GSM 1900MHz EGPRS										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber G	-	3m Chamber G	-	Filter	-	EIRP	-			
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1956.2MHz)										
3.70	-41.6	H	3.0	-11.7	34.4	1.0	-45.1	-13.0	-32.1	
5.54	-70.2	H	3.0	-16.6	34.1	1.0	-49.7	-13.0	-36.7	
7.52	-71.9	H	3.0	-15.4	33.5	1.0	-48.0	-13.0	-35.0	
3.76	-60.3	V	3.0	-10.3	34.4	1.0	-43.7	-13.0	-30.7	
5.64	-70.1	V	3.0	-16.4	34.1	1.0	-49.3	-13.0	-36.5	
7.52	-71.7	V	3.0	-14.4	33.5	1.0	-47.9	-13.0	-34.9	
Mid Channel (1988.0MHz)										
3.76	-65.7	H	3.0	-15.5	34.4	1.0	-48.9	-13.0	-35.9	
5.73	-70.9	H	3.0	-17.2	34.1	1.0	-50.3	-13.0	-37.3	
7.54	-72.1	H	3.0	-15.2	33.6	1.0	-48.7	-13.0	-35.3	
3.76	-64.7	V	3.0	-14.5	34.4	1.0	-47.8	-13.0	-34.8	
5.73	-70.1	V	3.0	-16.3	34.1	1.0	-49.4	-13.0	-36.4	
7.54	-72.9	V	3.0	-16.5	33.5	1.0	-49.0	-13.0	-36.0	
Rev. 03.19.15										
GSM 1900MHz EGPRS										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber F	-	3m Chamber F	-	Filter	-	EIRP	-			
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1956.2MHz)										
3.70	-41.6	H	3.0	-11.7	34.4	1.0	-45.1	-13.0	-32.1	
5.54	-70.2	H	3.0	-16.6	34.1	1.0	-49.7	-13.0	-36.7	
7.52	-71.9	H	3.0	-15.4	33.5	1.0	-48.0	-13.0	-35.0	
3.76	-60.3	V	3.0	-10.3	34.4	1.0	-43.7	-13.0	-30.7	
5.64	-70.1	V	3.0	-16.4	34.1	1.0	-49.3	-13.0	-36.5	
7.52	-71.7	V	3.0	-14.4	33.5	1.0	-47.9			

9.2.2. CDMA

| High Frequency Substitution Measurement
UL Fremont Radiated Chamber
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| Company: Project #:
Date: 05/04/18
Test Engineer: 44410
Configuration: EUT only
Mode: 1xRTT 800MHz
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable
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| <table border="1"> <thead> <tr> <th>Chamber</th><th>Pre-amplifier</th><th>Filter</th><th>Limit</th></tr> </thead> <tbody> <tr> <td>3m Chamber E</td><td>3m Chamber E</td><td>Filter</td><td>EIRP</td></tr> </tbody> </table>
 | | | | | | | | | | | Chamber | Pre-amplifier | Filter | Limit | 3m Chamber E | 3m Chamber E | Filter | EIRP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Pol. (H/V) | Distance | EIRP @ TX Ant End (dBm) | Preamp | Attenuator | EIRP | Limit | Delta | Notes | Low Channel (817.5MHz) | | | | | | | | | | | 1.63 | -61.6 | H | 3.0 | -19.1 | 37.8 | 1.0 | -56.0 | -13.0 | -43.0 | | 2.47 | -64.4 | H | 3.0 | -19.9 | 38.4 | 1.0 | -56.8 | -13.0 | -43.5 | | 3.27 | -65.2 | H | 3.0 | -17.4 | 38.5 | 1.0 | -54.6 | -13.0 | -41.6 | | 1.63 | -58.8 | V | 3.0 | -16.7 | 37.8 | 1.0 | -53.6 | -13.0 | -40.6 | | 2.45 | -62.6 | V | 3.0 | -17.4 | 38.4 | 1.0 | -54.7 | -13.0 | -41.7 | | 3.27 | -65.6 | V | 3.0 | -17.2 | 38.5 | 1.0 | -54.0 | -13.0 | -41.0 | | Mid Channel (820MHz) | | | | | | | | | | | 1.63 | -59.6 | H | 3.0 | -17.2 | 37.8 | 1.0 | -54.0 | -13.0 | -41.0 | | 2.46 | -64.8 | H | 3.0 | -19.9 | 38.4 | 1.0 | -57.3 | -13.0 | -44.3 | | 3.28 | -65.3 | H | 3.0 | -16.4 | 38.5 | 1.0 | -53.9 | -13.0 | -40.9 | | 1.64 | -57.3 | V | 3.0 | -19.2 | 37.8 | 1.0 | -52.1 | -13.0 | -39.1 | | 2.46 | -62.2 | V | 3.0 | -19.1 | 38.4 | 1.0 | -54.6 | -13.0 | -42.6 | | 3.28 | -65.2 | V | 3.0 | -16.6 | 38.5 | 1.0 | -54.0 | -13.0 | -41.0 | | High Channel (822.5MHz) | | | | | | | | | | | 1.65 | -63.8 | H | 3.0 | -21.4 | 37.8 | 1.0 | -58.2 | -13.0 | -45.2 | | 2.47 | -64.8 | H | 3.0 | -19.8 | 38.5 | 1.0 | -57.3 | -13.0 | -44.3 | | 3.29 | -65.2 | H | 3.0 | -19.5 | 38.5 | 1.0 | -55.3 | -13.0 | -43.7 | | 1.65 | -59.3 | V | 3.0 | -17.2 | 37.8 | 1.0 | -54.0 | -13.0 | -41.0 | | 2.47 | -62.0 | V | 3.0 | -16.9 | 38.5 | 1.0 | -54.3 | -13.0 | -41.3 | | 3.29 | -64.7 | V | 3.0 | -16.0 | 38.5 | 1.0 | -53.5 | -13.0 | -40.5 | | Rev. 03.19.15 | | | | | | | | | | | CDMA BC10 1xRTT | | | | | | | | | | | <table border="1"> <thead> <tr> <th>Chamber</th><th>Pre-amplifier</th><th>Filter</th><th>Limit</th></tr> </thead> <tbody> <tr> <td>3m Chamber E</td><td>3m Chamber E</td><td>Filter</td><td>EIRP</td></tr> </tbody> </table> | | | | | | | | | | | Chamber | Pre-amplifier | Filter | Limit | 3m Chamber E | 3m Chamber E | Filter | EIRP | <table border="1"> <thead> <tr> <th>Frequency (GHz)</th><th>SA reading (dBm)</th><th>Ant. 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| Low Channel (817.5MHz)
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 | -62.6 | V | 3.0 | -17.4 | 38.4 | 1.0 | -54.7 | -13.0 | -41.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 | -57.3 | V | 3.0 | -19.2 | 37.8 | 1.0 | -52.1 | -13.0 | -39.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 | -64.8 | H | 3.0 | -19.8 | 38.5 | 1.0 | -57.3 | -13.0 | -44.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Frequency (GHz)
 | SA reading (dBm) | Ant. Pol. (H/V) | Distance | EIRP @ TX Ant End (dBm) | Preamp | Attenuator | EIRP | Limit | Delta | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Low Channel (824.7MHz)
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 | -60.5 | V | 3.0 | -15.4 | 38.5 | 1.0 | -52.8 | -13.0 | -39.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 1.67
 | -59.3 | V | 3.0 | -13.1 | 37.8 | 1.0 | -49.9 | -13.0 | -36.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 | -65.2 | H | 3.0 | -19.8 | 38.6 | 1.0 | -57.3 | -13.0 | -44.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 | -66.3 | V | 3.0 | -17.3 | 38.5 | 1.0 | -54.8 | -13.0 | -41.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 | Frequency (GHz) | SA reading (dBm) | Ant. Pol. (H/V) | Distance | EIRP @ TX Ant End (dBm) | Preamp | Attenuator | EIRP | Limit | Delta | Notes | Low Channel (824.7MHz) | | | | | | | | | | | 1.65 | -63.8 | H | 3.0 | -19.2 | 37.8 | 1.0 | -58.0 | -13.0 | -44.0 | | 2.47 | -64.9 | H | 3.0 | -19.9 | 38.5 | 1.0 | -57.4 | -13.0 | -44.4 | | 3.29 | -65.3 | H | 3.0 | -19.5 | 38.5 | 1.0 | -55.3 | -13.0 | -43.9 | | 1.65 | -59.4 | V | 3.0 | -12.8 | 37.8 | 1.0 | -49.6 | -13.0 | -36.6 | | 2.47 | -60.5 | V | 3.0 | -15.4 | 38.5 | 1.0 | -52.8 | -13.0 | -39.8 | | 3.29 | -64.6 | V | 3.0 | -15.9 | 38.5 | 1.0 | -53.4 | -13.0 | -40.4 | | Mid Channel (826.5MHz) | | | | | | | | | | | 1.67 | -63.4 | H | 3.0 | -20.9 | 37.8 | 1.0 | -57.8 | -13.0 | -44.8 | | 2.47 | -64.8 | H | 3.0 | -19.5 | 38.6 | 1.0 | -57.1 | -13.0 | -44.1 | | 3.29 | -65.0 | H | 3.0 | -19.5 | 38.5 | 1.0 | -55.3 | -13.0 | -43.9 | | 1.67 | -59.3 | V | 3.0 | -13.1 | 37.8 | 1.0 | -49.9 | -13.0 | -36.9 | | 2.47 | -61.8 | V | 3.0 | -19.4 | 38.6 | 1.0 | -57.0 | -13.0 | -44.0 | | 3.29 | -65.3 | V | 3.0 | -16.5 | 38.5 | 1.0 | -53.4 | -13.0 | -40.4 | | High Channel (828.5MHz) | | | | | | | | | | | 1.70 | -69.8 | H | 3.0 | -18.3 | 37.9 | 1.0 | -55.1 | -13.0 | -42.1 | | 2.54 | -65.2 | H | 3.0 | -19.8 | 38.6 | 1.0 | -57.3 | -13.0 | -44.3 | | 3.39 | -66.1 | H | 3.0 | -17.0 | 38.5 | 1.0 | -54.5 | -13.0 | -41.5 | | 1.70 | -65.8 | V | 3.0 | -17.0 | 37.9 | 1.0 | -53.7 | -13.0 | -42.3 | | 2.54 | -65.4 | V | 3.0 | -19.9 | 38.6 | 1.0 | -57.4 | -13.0 | -44.4 | | 3.39 | -66.3 | V | 3.0 | -17.3 | 38.5 | 1.0 | -54.8 | -13.0 | -41.8 | | Rev. 03.19.15 | | | | | | | | | | | CDMA BC0 1xEV-DO Rev A | | | | | | | | | | | <table border="1"> <thead> <tr> <th>Chamber</th><th>Pre-amplifier</th><th>Filter</th><th>Limit</th></tr> </thead> <tbody> <tr> <td>3m Chamber E</td><td>3m Chamber E</td><td>Filter</td><td>EIRP</td></tr> </tbody> </table> | | | | | | | | | | | Chamber | Pre-amplifier | Filter | Limit | 3m Chamber E | 3m Chamber E | Filter | EIRP | <table border="1"> <thead> <tr> <th>Frequency (GHz)</th><th>SA reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance</th><th>EIRP @ TX Ant End (dBm)</th><th>Preamp</th><th>Attenuator</th><th>EIRP</th><th>Limit</th><th>Delta</th><th>Notes</th></tr> </thead> <tbody> <tr> <td>Low Channel (824.7MHz)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.65</td><td>-63.8</td><td>H</td><td>3.0</td><td>-19.2</td><td>37.8</td><td>1.0</td><td>-57.0</td><td>-13.0</td><td>-44.0</td><td></td></tr> <tr> <td>2.47</td><td>-64.9</td><td>H</td><td>3.0</td><td>-19.9</td><td>38.5</td><td>1.0</td><td>-57.4</td><td>-13.0</td><td>-44.4</td><td></td></tr> <tr> <td>3.29</td><td>-65.3</td><td>H</td><td>3.0</td><td>-19.5</td><td>38.5</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-43.9</td><td></td></tr> <tr> <td>1.65</td><td>-59.4</td><td>V</td><td>3.0</td><td>-12.8</td><td>37.8</td><td>1.0</td><td>-49.6</td><td>-13.0</td><td>-36.6</td><td></td></tr> <tr> <td>2.47</td><td>-60.5</td><td>V</td><td>3.0</td><td>-15.4</td><td>38.5</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr>
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| Frequency (GHz)
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 | -59.4 | V | 3.0 | -12.8 | 37.8 | 1.0 | -49.6 | -13.0 | -36.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Mid Channel (826.5MHz)
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 | -65.4 | V | 3.0 | -19.9 | 38.6 | 1.0 | -57.4 | -13.0 | -44.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 | Frequency (GHz) | SA reading (dBm) | Ant. Pol. (H/V) | Distance | EIRP @ TX Ant End (dBm) | Preamp | Attenuator | EIRP | Limit | Delta | Notes | Low Channel (824.7MHz) | | | | | | | | | | | 1.65 | -63.8 | H | 3.0 | -19.2 | 37.8 | 1.0 | -57.0 | -13.0 | -44.0 | | 2.47 | -64.9 | H | 3.0 | -19.9 | 38.5 | 1.0 | -57.4 | -13.0 | -44.4 | | 3.29 | -65.3 | H | 3.0 | -19.5 | 38.5 | 1.0 | -55.3 | -13.0 | -43.9 | | 1.65 | -59.4 | V | 3.0 | -12.8 | 37.8 | 1.0 | -49.6 | -13.0 | -36.6 | | 2.47 | -60.5 | V | 3.0 | -15.4 | 38.5 | 1.0 | -52.8 | -13.0 | -39.8 | | 3.29 | -64.6 | V | 3.0 | -15.9 | 38.5 | 1.0 | -53.4 | -13.0 | -40.4 | | Mid Channel (826.5MHz) | | | | | | | | | | | 1.67 | -63.4 | H | 3.0 | -20.9 | 37.8 | 1.0 | -57.8 | -13.0 | -44.8 | | 2.47 | -64.8 | H | 3.0 | -19.5 | 38.6 | 1.0 | -57.1 | -13.0 | -44.1 | | 3.29 | -65.0 | H | 3.0 | -19.5 | 38.5 | 1.0 | -55.3 | -13.0 | -43.9 | | 1.67 | -59.3 | V | 3.0 | -13.1 | 37.8 | 1.0 | -49.9 | -13.0 | -36.9 | | 2.47 | -61.8 | V | 3.0 | -19.4 | 38.6 | 1.0 | -57.0 | -13.0 | -44.0 | | 3.29 | -65.3 | V | 3.0 | -16.5 | 38.5 | 1.0 | -53.4 | -13.0 | -40.4 | | High Channel (828.5MHz) | | | | | | | | | | | 1.70 | -69.8 | H | 3.0 | -18.3 | 37.9 | 1.0 | -55.1 | -13.0 | -42.1 | | 2.54 | -65.2 | H | 3.0 | -19.8 | 38.6 | 1.0 | -57.3 | -13.0 | -44.3 | | 3.39 | -66.1 | H | 3.0 | -17.0 | 38.5 | 1.0 | -54.5 | -13.0 | -41.5 | | 1.70 | -65.8 | V | 3.0 | -17.0 | 37.9 | 1.0 | -53.7 | -13.0 | -42.3 | | 2.54 | -65.4 | V | 3.0 | -19.9 | 38.6 | 1.0 | -57.4 | -13.0 | -44.4 | | 3.39 | -66.3 | V | 3.0 | -17.3 | 38.5 | 1.0 | -54.8 | -13.0 | -41.8 | | Rev. 03.19.15 | | | | | | | | | | | CDMA BC0 1xEV-DO Rev A | | | | | | | | | | | <table border="1"> <thead> <tr> <th>Chamber</th><th>Pre-amplifier</th><th>Filter</th><th>Limit</th></tr> </thead> <tbody> <tr> <td>3m Chamber E</td><td>3m Chamber E</td><td>Filter</td><td>EIRP</td></tr> </tbody> </table> | | | | | | | | | | | Chamber | Pre-amplifier | Filter | Limit | 3m Chamber E | 3m Chamber E | Filter | EIRP | <table border="1"> <thead> <tr> <th>Frequency (GHz)</th><th>SA reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance</th><th>EIRP @ TX Ant End (dBm)</th><th>Preamp</th><th>Attenuator</th><th>EIRP</th><th>Limit</th><th>Delta</th><th>Notes</th></tr> </thead> <tbody> <tr> <td>Low Channel (824.7MHz)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.65</td><td>-63.8</td><td>H</td><td>3.0</td><td>-19.2</td><td>37.8</td><td>1.0</td><td>-56.6</td><td>-13.0</td><td>-43.6</td><td></td></tr> <tr> <td>2.47</td><td>-64.9</td><td>H</td><td>3.0</td><td>-19.9</td><td>38.4</td><td>1.0</td><td>-56.9</td><td>-13.0</td><td>-43.9</td><td></td></tr> <tr> <td>3.29</td><td>-65.3</td><td>H</td><td>3.0</td><td>-19.5</td><td>38.5</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-43.3</td><td></td></tr> <tr> <td>1.65</td><td>-59.4</td><td>V</td><td>3.0</td><td>-12.8</td><td>37.8</td><td>1.0</td><td>-49.6</td><td>-13.0</td><td>-36.6</td><td></td></tr> <tr> <td>2.47</td><td>-60.5</td><td>V</td><td>3.0</td><td>-15.4</td><td>38.5</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr>
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| Frequency (GHz)
 | SA reading (dBm) | Ant. Pol. (H/V) | Distance | EIRP @ TX Ant End (dBm) | Preamp | Attenuator | EIRP | Limit | Delta | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 | -65.3 | H | 3.0 | -19.5 | 38.5 | 1.0 | -55.3 | -13.0 | -43.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 | -59.4 | V | 3.0 | -12.8 | 37.8 | 1.0 | -49.6 | -13.0 | -36.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 | -69.8 | H | 3.0 | -18.3 | 37.9 | 1.0 | -55.1 | -13.0 | -42.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 2.54
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 | -65.4 | V | 3.0 | -19.9 | 38.6 | 1.0 | -57.4 | -13.0 | -44.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 | -66.3 | V | 3.0 | -17.3 | 38.5 | 1.0 | -54.8 | -13.0 | -41.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| <table border="1"> <thead> <tr> <th>Frequency (GHz)</th><th>SA reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance</th><th>EIRP @ TX Ant End (dBm)</th><th>Preamp</th><th>Attenuator</th><th>EIRP</th><th>Limit</th><th>Delta</th><th>Notes</th></tr> </thead> <tbody> <tr> <td>Low Channel (824.7MHz)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.65</td><td>-63.8</td><td>H</td><td>3.0</td><td>-19.2</td><td>37.8</td><td>1.0</td><td>-56.6</td><td>-13.0</td><td>-43.6</td><td></td></tr> <tr> <td>2.47</td><td>-64.9</td><td>H</td><td>3.0</td><td>-19.9</td><td>38.4</td><td>1.0</td><td>-56.9</td><td>-13.0</td><td>-43.9</td><td></td></tr> <tr> <td>3.29</td><td>-65.3</td><td>H</td><td>3.0</td><td>-19.5</td><td>38.5</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-43.3</td><td></td></tr> <tr> <td>1.65</td><td>-59.4</td><td>V</td><td>3.0</td><td>-12.8</td><td>37.8</td><td>1.0</td><td>-49.6</td><td>-13.0</td><td>-36.6</td><td></td></tr> <tr> <td>2.47</td><td>-60.5</td><td>V</td><td>3.0</td><td>-15.4</td><td>38.5</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr> <tr> <td>3.29</td><td>-64.6</td><td>V</td><td>3.0</td><td>-15.9</td><td>38.5</td><td>1.0</td><td>-53.4</td><td>-13.0</td><td>-40.4</td><td></td></tr> <tr> <td>Mid Channel (826.5MHz)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>1.67</td><td>-63.4</td><td>H</td><td>3.0</td><td>-20.9</td><td>37.8</td><td>1.0</td><td>-57.8</td><td>-13.0</td><td>-44.8</td><td></td></tr> <tr> <td>2.47</td><td>-64.8</td><td>H</td><td>3.0</td><td>-19.5</td></tr></tbody></table>
 | Frequency (GHz) | SA reading (dBm) | Ant. Pol. (H/V) | Distance | EIRP @ TX Ant End (dBm) | Preamp | Attenuator | EIRP | Limit | Delta | Notes | Low Channel (824.7MHz) | | | | | | | | | | | 1.65 | -63.8 | H | 3.0 | -19.2 | 37.8 | 1.0 | -56.6 | -13.0 | -43.6 | | 2.47 | -64.9 | H | 3.0 | -19.9 | 38.4 | 1.0 | -56.9 | -13.0 | -43.9 | | 3.29 | -65.3 | H | 3.0 | -19.5 | 38.5 | 1.0 | -55.3 | -13.0 | -43.3 | | 1.65 | -59.4 | V | 3.0 | -12.8 | 37.8 | 1.0 | -49.6 | -13.0 | -36.6 | | 2.47 | -60.5 | V | 3.0 | -15.4 | 38.5 | 1.0 | -52.8 | -13.0 | -39.8 | | 3.29 | -64.6 | V | 3.0 | -15.9 | 38.5 | 1.0 | -53.4 | -13.0 | -40.4 | | Mid Channel (826.5MHz) | | | | | | | | | | | 1.67 | -63.4 | H | 3.0 | -20.9 | 37.8 | 1.0 | -57.8 | -13.0 | -44.8 | | 2.47 | -64.8 | H | 3.0 | -19.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Frequency (GHz)
 | SA reading (dBm) | Ant. Pol. (H/V) | Distance | EIRP @ TX Ant End (dBm) | Preamp | Attenuator | EIRP | Limit | Delta | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Low Channel (824.7MHz)
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 | -63.8 | H | 3.0 | -19.2 | 37.8 | 1.0 | -56.6 | -13.0 | -43.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 2.47
 | -64.9 | H | 3.0 | -19.9 | 38.4 | 1.0 | -56.9 | -13.0 | -43.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 3.29
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| 1.65
 | -59.4 | V | 3.0 | -12.8 | 37.8 | 1.0 | -49.6 | -13.0 | -36.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 2.47
 | -60.5 | V | 3.0 | -15.4 | 38.5 | 1.0 | -52.8 | -13.0 | -39.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 3.29
 | -64.6 | V | 3.0 | -15.9 | 38.5 | 1.0 | -53.4 | -13.0 | -40.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Mid Channel (826.5MHz)
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| 1.67
 | -63.4 | H | 3.0 | -20.9 | 37.8 | 1.0 | -57.8 | -13.0 | -44.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| 2.47
 | -64.8 | H | 3.0 | -19.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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9.2.3. WCDMA

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: Date: Test Engineer: Configuration: Mode:		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber E	-	3m Chamber E	-	Filter	-	EIRP	-	-		
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (826.4MHz)										
1.65	-65.5	H	3.0	-23.0	37.8	1.0	-59.8	-13.0	-48.8	
2.48	-65.9	H	3.0	-20.8	38.5	1.0	-58.3	-13.0	-45.3	
3.31	-66.0	H	3.0	-17.6	38.5	1.0	-54.5	-13.0	-41.5	
1.65	-64.7	V	3.0	-22.6	37.8	1.0	-59.4	-13.0	-46.4	
2.48	-68.8	V	3.0	-21.3	38.5	1.0	-58.7	-13.0	-45.8	
3.31	-67.0	V	3.0	-18.2	38.5	1.0	-55.7	-13.0	-42.7	
Mid Channel (836.8MHz)										
1.67	-65.9	H	3.0	-23.4	37.8	1.0	-60.2	-13.0	-47.2	
2.51	-66.0	H	3.0	-21.3	38.6	1.0	-58.4	-13.0	-45.4	
3.35	-66.5	H	3.0	-17.4	38.5	1.0	-54.9	-13.0	-41.9	
1.67	-64.8	V	3.0	-22.7	37.8	1.0	-59.8	-13.0	-46.8	
2.51	-65.8	V	3.0	-20.4	38.6	1.0	-58.0	-13.0	-45.0	
3.35	-65.8	V	3.0	-17.0	38.5	1.0	-54.5	-13.0	-41.5	
High Channel (846.8MHz)										
1.69	-65.0	H	3.0	-22.5	37.9	1.0	-59.3	-13.0	-46.3	
2.54	-66.1	H	3.0	-21.3	38.8	1.0	-58.8	-13.0	-45.8	
3.39	-66.6	H	3.0	-17.8	38.5	1.0	-55.6	-13.0	-42.0	
1.69	-63.6	V	3.0	-21.3	37.9	1.0	-58.1	-13.0	-45.1	
2.54	-66.1	V	3.0	-20.6	38.6	1.0	-58.1	-13.0	-45.1	
3.39	-65.5	V	3.0	-16.6	38.5	1.0	-54.1	-13.0	-41.1	
Rev. 03.19.15										
WCDMA Band 5 Rel 99										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: Date: Test Engineer: Configuration: Mode:		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber F	-	3m Chamber F	-	Filter	-	EIRP	-	-		
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.4MHz)										
3.70	-63.6	H	3.0	-13.8	34.4	1.0	-47.3	-13.0	-34.3	
5.56	-65.5	H	3.0	-12.1	34.1	1.0	-45.2	-13.0	-32.2	
7.41	-67.5	H	3.0	-11.1	33.6	1.0	-43.7	-13.0	-30.7	
3.70	-63.2	V	3.0	-13.3	34.4	1.0	-46.8	-13.0	-33.8	
5.55	-64.4	V	3.0	-10.8	34.1	1.0	-43.9	-13.0	-30.9	
7.42	-68.1	V	3.0	-11.9	33.6	1.0	-44.5	-13.0	-31.5	
Mid Channel (1880.4MHz)										
3.76	-61.7	H	3.0	-11.7	34.4	1.0	-45.1	-13.0	-32.1	
5.52	-65.1	H	3.0	-10.7	34.1	1.0	-43.6	-13.0	-32.7	
7.52	-67.7	H	3.0	-11.2	33.5	1.0	-45.7	-13.0	-30.7	
3.76	-62.9	V	3.0	-12.8	34.4	1.0	-46.2	-13.0	-33.2	
5.64	-65.0	V	3.0	-11.3	34.1	1.0	-44.4	-13.0	-31.4	
7.52	-67.8	V	3.0	-11.5	33.5	1.0	-44.0	-13.0	-31.0	
High Channel (1907.6MHz)										
3.76	-61.3	H	3.0	-10.4	34.4	1.0	-43.7	-13.0	-30.7	
5.72	-63.2	H	3.0	-9.5	34.1	1.0	-42.6	-13.0	-29.6	
7.66	-66.0	H	3.0	-9.3	33.4	1.0	-41.7	-13.0	-28.7	
3.82	-62.1	V	3.0	-11.9	34.4	1.0	-45.3	-13.0	-32.0	
5.72	-63.1	V	3.0	-9.2	34.1	1.0	-42.4	-13.0	-29.4	
7.63	-65.5	V	3.0	-9.1	33.4	1.0	-41.5	-13.0	-28.5	
Rev. 03.19.15										
WCDMA Band 2 Rel 99										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: Date: Test Engineer: Configuration: Mode:		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber E	-	3m Chamber E	-	Filter	-	EIRP	-	-		
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.4MHz)										
3.70	-63.6	H	3.0	-13.7	34.4	1.0	-53.7	-13.0	-38.3	
5.56	-64.7	H	3.0	-10.6	34.5	1.0	-48.2	-13.0	-35.2	
7.41	-64.4	H	3.0	-9.8	34.5	1.0	-47.5	-13.0	-33.1	
9.26	-67.7	H	3.0	-7.8	36.6	1.0	-43.4	-13.0	-30.4	
3.70	-62.8	V	3.0	-12.9	34.6	1.0	-50.6	-13.0	-37.6	
5.56	-64.4	V	3.0	-10.6	34.5	1.0	-48.9	-13.0	-35.2	
7.41	-66.1	V	3.0	-8.7	37.8	1.0	-45.5	-13.0	-32.5	
9.26	-66.7	V	3.0	-6.9	36.6	1.0	-42.5	-13.0	-29.5	
Mid Channel (1880.4MHz)										
3.76	-62.7	H	3.0	-12.6	34.6	1.0	-50.2	-13.0	-37.2	
5.64	-64.7	H	3.0	-11.5	34.5	1.0	-48.0	-13.0	-36.0	
7.52	-67.0	H	3.0	-9.2	37.7	1.0	-45.9	-13.0	-32.9	
9.40	-66.3	H	3.0	-7.2	36.5	1.0	-44.7	-13.0	-31.9	
3.76	-64.1	V	3.0	-14.0	36.6	1.0	-51.7	-13.0	-38.7	
5.64	-64.9	V	3.0	-11.0	36.5	1.0	-48.5	-13.0	-35.5	
7.52	-65.2	V	3.0	-9.0	37.7	1.0	-47.1	-13.0	-34.3	
9.40	-66.6	V	3.0	-6.6	36.5	1.0	-42.1	-13.0	-29.1	
High Channel (1907.6MHz)										
3.82	-62.3	H	3.0	-12.1	36.7	1.0	-49.7	-13.0	-36.7	
5.72	-63.4	H	3.0	-9.0	36.5	1.0	-46.5	-13.0	-33.5	
7.63	-66.4	H	3.0	-7.3	37.7	1.0	-44.3	-13.0	-31.3	
9.54	-66.5	H	3.0	-6.2	36.4	1.0	-41.7	-13.0	-28.7	
3.82	-60.8	V	3.0	-10.6	36.5	1.0	-48.1	-13.0	-35.6	
5.72	-64.2	V	3.0	-9.1	36.5	1.0	-47.6	-13.0	-34.6	
7.63	-65.5	V	3.0	-7.7	37.7	1.0	-44.4	-13.0	-31.4	
9.54	-67.3	V	3.0	-7.1	36.4	1.0	-42.5	-13.0	-29.5	
Rev. 03.19.15										
WCDMA Band 2 HSDPA										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: Date: Test Engineer: Configuration: Mode:		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber E	-	3m Chamber E	-	Filter	-	EIRP	-	-		
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance (m)	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.4MHz)										
3.70	-63.6	H	3.0	-13.0	34.4	1.0	-47.3	-13.0	-34.3	
5.56	-65.5	H	3.0	-10.1	34.1	1.0	-45.2	-13.0	-32.2	
7.41	-67.5	H	3.0	-8.1	33.6	1.0	-43.7	-13.0	-30.7	
3.70	-63.2	V	3.0	-13.3	34.4	1.0	-46.8	-13.0	-33.8	
5.55	-64.4	V	3.0	-10.8	34.1	1.0	-44.9	-13.0	-31.9	
7.42	-68.1	V	3.0	-11.5	33.5	1.0	-44.0	-13.0	-31.0	
Mid Channel (1880.4MHz)										
3.76	-61.7	H	3.0	-11.7	34.4	1.0	-45.1</td			

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: 05/01/18 Date: 10649 Test Engineer: 10649 Configuration: EUT Only Mode: REL 99, 1700MHz		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber E		3m Chamber E		Filter		EIRP				
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1712.4MHz)										
3.42	-67.1	H	3.0	-17.9	38.5	1.0	-55.4	-13.0	-42.4	
5.14	-42.2	H	3.0	-9.5	38.7	1.0	-47.5	-13.0	-34.2	
6.85	-47.2	H	3.0	-13.0	38.1	1.0	-47.5	-13.0	-34.5	
8.56	-65.9	H	3.0	-6.8	37.1	1.0	-42.9	-13.0	-29.9	
3.42	-66.7	V	3.0	-17.6	38.5	1.0	-55.2	-13.0	-42.2	
5.14	-63.7	V	3.0	-13.0	38.7	1.0	-48.1	-13.0	-35.1	
6.85	-67.3	V	3.0	-10.8	38.1	1.0	-47.8	-13.0	-34.8	
8.56	-65.0	V	3.0	-6.0	37.1	1.0	-42.1	-13.0	-29.1	
Mid Channel (1732.6MHz)										
3.47	-65.2	H	3.0	-15.8	38.5	1.0	-53.4	-13.0	-40.4	
5.20	-64.7	H	3.0	-11.0	38.7	1.0	-48.1	-13.0	-36.1	
6.93	-65.0	H	3.0	-8.0	38.1	1.0	-45.1	-13.0	-32.1	
8.66	-66.8	H	3.0	-7.6	37.0	1.0	-43.6	-13.0	-30.6	
3.47	-65.0	V	3.0	-15.8	38.5	1.0	-53.3	-13.0	-40.3	
5.20	-64.4	V	3.0	-11.0	38.7	1.0	-48.1	-13.0	-36.2	
6.93	-65.3	V	3.0	-8.5	38.1	1.0	-45.7	-13.0	-32.7	
8.66	-67.3	V	3.0	-8.2	37.0	1.0	-44.2	-13.0	-31.2	
High Channel (1752.6MHz)										
3.51	-67.3	H	3.0	-17.8	38.5	1.0	-55.4	-13.0	-42.4	
5.26	-65.3	H	3.0	-11.9	38.7	1.0	-49.5	-13.0	-36.5	
7.01	-67.1	H	3.0	-8.0	38.1	1.0	-46.7	-13.0	-33.9	
8.76	-67.5	H	3.0	-8.2	38.9	1.0	-44.2	-13.0	-31.2	
3.51	-66.2	V	3.0	-16.9	38.5	1.0	-54.5	-13.0	-41.5	
5.26	-64.6	V	3.0	-11.9	38.7	1.0	-49.0	-13.0	-36.2	
7.01	-67.4	V	3.0	-10.5	38.1	1.0	-47.5	-13.0	-34.5	
8.76	-67.8	V	3.0	-6.6	36.9	1.0	-44.6	-13.0	-31.6	
WCDMA Band 4 Rel 99										
WCDMA Band 4 HSDPA										

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WCDMA Band 4 HSDPA

9.3. FIELD STRENGTH OF SPURIOUS RADIATION (Ant 3)

9.3.1. GSM

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: 041818 Date: 12500 Test Engineer: EUT Only Configuration: GPRS 1900MHz Mode:		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber	Pre-amplifier	Filter	Limit	3m Chamber F	3m Chamber F	Filter	EIRP	3m Chamber F	3m Chamber F	Filter
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.4MHz)										
3.70	-66.5	H	3.0	-17.0	34.4	1.0	-50.5	-13.0	-37.5	
5.55	-69.2	H	3.0	-15.8	34.1	1.0	-48.9	-13.0	-35.9	
7.40	-69.7	H	3.0	-13.4	33.6	1.0	-46.0	-13.0	-33.0	
3.70	-67.1	H	3.0	-11.7	34.4	1.0	-47.1	-13.0	-32.3	
5.55	-67.9	V	3.0	-14.3	34.1	1.0	-47.4	-13.0	-34.4	
7.40	-69.3	V	3.0	-13.2	33.6	1.0	-45.8	-13.0	-32.8	
Mid Channel (1900.0MHz)										
3.70	-66.9	H	3.0	-16.9	34.4	1.0	-50.3	-13.0	-37.3	
5.55	-69.2	H	3.0	-16.2	34.1	1.0	-49.3	-13.0	-36.0	
7.52	-69.2	H	3.0	-12.7	33.5	1.0	-45.2	-13.0	-32.2	
3.70	-66.7	V	3.0	-16.6	34.4	1.0	-50.0	-13.0	-37.0	
5.55	-68.2	V	3.0	-14.5	34.1	1.0	-47.8	-13.0	-34.5	
7.52	-69.7	V	3.0	-13.4	33.5	1.0	-45.9	-13.0	-32.9	
High Channel (1909.8MHz)										
3.70	-67.2	H	3.0	-17.0	34.4	1.0	-50.4	-13.0	-37.4	
5.55	-69.8	H	3.0	-16.2	34.1	1.0	-49.3	-13.0	-36.0	
7.54	-69.3	H	3.0	-12.8	33.5	1.0	-45.3	-13.0	-32.3	
3.82	-66.9	V	3.0	-16.2	34.4	1.0	-49.8	-13.0	-36.6	
5.52	-68.9	V	3.0	-14.1	34.1	1.0	-47.1	-13.0	-35.1	
7.54	-69.7	V	3.0	-13.4	33.5	1.0	-45.9	-13.0	-32.9	

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GSM 1900MHz GPRS

GSM 1900MHz EGPRS

9.3.2. WCDMA

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: 512018 Date: 10649 Test Engineer: EUT Only Configuration: REL 99, 1900MHz Mode:		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber	Pre-amplifier	Filter	Limit	3m Chamber E	3m Chamber E	Filter	EIRP	3m Chamber E	3m Chamber E	Filter
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.4MHz)										
3.70	-62.0	H	3.0	-12.1	38.6	1.0	-49.7	-13.0	-36.7	
5.56	-62.4	H	3.0	-8.7	38.6	1.0	-46.3	-13.0	-33.3	
7.41	-65.6	H	3.0	-12.7	37.8	1.0	-47.0	-13.0	-32.7	
3.70	-61.9	V	3.0	-12.0	38.6	1.0	-49.6	-13.0	-36.6	
5.55	-65.5	V	3.0	-11.7	38.6	1.0	-49.3	-13.0	-36.3	
7.42	-66.0	V	3.0	-8.5	37.8	1.0	-45.3	-13.0	-32.3	
Mid Channel (1880.0MHz)										
3.70	-62.4	H	3.0	-12.3	38.6	1.0	-48.9	-13.0	-36.9	
5.56	-64.4	H	3.0	-10.4	38.5	1.0	-47.8	-13.0	-34.9	
7.52	-67.7	H	3.0	-9.8	37.7	1.0	-46.6	-13.0	-33.6	
3.70	-62.0	V	3.0	-11.9	38.6	1.0	-49.6	-13.0	-36.6	
5.55	-65.5	V	3.0	-11.7	38.6	1.0	-49.3	-13.0	-36.3	
7.52	-66.8	V	3.0	-9.2	37.7	1.0	-45.9	-13.0	-32.9	
High Channel (1907.6MHz)										
3.81	-62.8	H	3.0	-12.7	38.7	1.0	-50.3	-13.0	-37.3	
5.72	-65.9	H	3.0	-11.5	38.5	1.0	-49.0	-13.0	-36.0	
7.66	-66.0	H	3.0	-8.0	37.7	1.0	-44.7	-13.0	-31.7	
3.82	-61.9	V	3.0	-11.7	38.7	1.0	-49.3	-13.0	-35.3	
5.72	-65.5	V	3.0	-11.4	38.5	1.0	-48.9	-13.0	-35.9	
7.63	-66.0	V	3.0	-8.2	37.7	1.0	-44.9	-13.0	-31.9	

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WCDMA Band 2 Rel 99

WCDMA Band 2 HSDPA

High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company: Project #: 050118 Date: 10649 Test Engineer: EUT Only Configuration: Mode: REL 99, 1700MHz											
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable					Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable						
Chamber		Pre-amplifier		Filter		Limit					
3m Chamber F		3m Chamber F		Filter		EIRP					
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (1712.8MHz)										Low Channel (1712.8MHz)	
3.42	-44.8	H	3.0	-16.1	34.6	1.0	-49.7	-13.0	-36.7		
5.14	-64.3	H	3.0	-11.6	34.2	1.0	-44.7	-13.0	-31.7		
6.85	-65.2	H	3.0	-9.7	33.9	1.0	-42.4	-13.0	-29.6		
8.56	-67.1	H	3.0	-4.6	32.7	1.0	-41.1	-13.0	-32.1		
3.42	-44.8	V	3.0	-15.8	34.6	1.0	-49.4	-13.0	-36.4		
5.14	-64.3	V	3.0	-11.3	34.2	1.0	-44.5	-13.0	-31.5		
6.85	-64.8	V	3.0	-9.2	33.9	1.0	-42.2	-13.0	-28.2		
8.56	-66.9	V	3.0	-4.2	32.7	1.0	-40.9	-13.0	-27.8		
Mid Channel (1732.8MHz)										Mid Channel (1732.8MHz)	
3.47	-45.6	H	3.0	-16.8	34.6	1.0	-50.3	-13.0	-37.3		
5.20	-64.0	H	3.0	-11.1	34.2	1.0	-44.3	-13.0	-31.3		
6.93	-65.0	H	3.0	-9.3	33.9	1.0	-42.3	-13.0	-29.3		
8.66	-67.8	H	3.0	-2.7	32.5	1.0	-39.0	-13.0	-31.4		
3.47	-44.8	V	3.0	-15.8	34.6	1.0	-49.3	-13.0	-36.3		
5.20	-64.1	V	3.0	-10.9	34.2	1.0	-44.1	-13.0	-31.1		
6.93	-65.4	V	3.0	-9.9	33.9	1.0	-42.8	-13.0	-29.8		
8.66	-67.2	V	3.0	-4.3	32.6	1.0	-41.0	-13.0	-28.0		
High Channel (1752.8MHz)										High Channel (1752.8MHz)	
3.51	-45.6	H	3.0	-16.6	34.5	1.0	-50.1	-13.0	-37.1		
5.26	-65.1	H	3.0	-12.1	34.2	1.0	-45.3	-13.0	-32.3		
7.01	-66.9	H	3.0	-11.1	33.9	1.0	-44.0	-13.0	-31.0		
8.76	-68.1	H	3.0	-1.3	32.6	1.0	-41.3	-13.0	-28.3		
3.51	-45.6	V	3.0	-16.4	34.5	1.0	-50.0	-13.0	-37.0		
5.26	-64.7	V	3.0	-11.4	34.2	1.0	-44.6	-13.0	-31.6		
7.01	-65.3	V	3.0	-9.7	33.9	1.0	-42.6	-13.0	-29.6		
8.76	-66.8	V	3.0	-8.8	32.6	1.0	-40.4	-13.0	-27.4		
WCDMA Band 4 Rel 99										WCDMA Band 4 HSDPA	
Rev. 03.19.15											

9.4. FIELD STRENGTH OF SPURIOUS RADIATION (Ant 4)

9.4.1. GSM

High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company: Project #: 041818 Date: 12500 Test Engineer: EUT only Configuration: EGPRS 1900MHz Mode: Substitution: Horn T59 Substitution, and 8ft SMA Cable		High Frequency Substitution Measurement UL Fremont Radiated Chamber									
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber			Pre-amplifier		Filter		Limit				
3m Chamber F			3m Chamber F		Filter		EIRP				
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (1852.4MHz)											
3.70	-42.2	H	3.0	-12.5	34.4	1.0	-45.9	-13.0	-32.9		
5.55	-49.3	H	3.0	-15.9	34.1	1.0	-49.0	-13.0	-36.0		
7.40	-70.4	H	3.0	-14.1	33.6	1.0	-46.7	-13.0	-33.7		
7.40	-65.1	H	3.0	-11.7	34.4	1.0	-47.2	-13.0	-32.5		
5.55	-49.9	V	3.0	-16.3	34.1	1.0	-49.4	-13.0	-36.4		
7.40	-69.0	V	3.0	-12.9	33.6	1.0	-45.5	-13.0	-32.5		
Mid Channel (1908.0MHz)											
3.76	-40.8	H	3.0	-10.8	34.4	1.0	-44.2	-13.0	-31.2		
5.64	-47.4	H	3.0	-13.8	34.1	1.0	-46.9	-13.0	-33.9		
7.52	-69.1	H	3.0	-12.7	33.5	1.0	-45.2	-13.0	-32.2		
3.76	-65.7	V	3.0	-15.6	34.4	1.0	-49.0	-13.0	-36.0		
5.64	-69.7	V	3.0	-15.9	34.1	1.0	-49.0	-13.0	-36.0		
7.52	-69.7	V	3.0	-13.4	33.5	1.0	-45.9	-13.0	-32.9		
High Channel (1909.8MHz)											
3.73	-45.5	H	3.0	-15.8	34.1	1.0	-48.9	-13.0	-35.9		
5.73	-69.7	H	3.0	-13.2	33.5	1.0	-45.7	-13.0	-32.7		
3.82	-67.3	V	3.0	-17.9	34.4	1.0	-50.6	-13.0	-37.4		
5.73	-68.4	V	3.0	-14.1	34.1	1.0	-47.1	-13.0	-34.6		
7.54	-70.0	V	3.0	-13.7	33.5	1.0	-46.2	-13.0	-33.2		
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GSM 1900MHz GPRS											
GSM 1900MHz EGPRS											

9.4.2. WCDMA

High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company: Project #: 4302018 Date: 10649 Test Engineer: 10649 Configuration: EUT Only Mode: REL 99, 1900MHz		High Frequency Substitution Measurement UL Fremont Radiated Chamber									
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber			Pre-amplifier		Filter		Limit				
3m Chamber E			3m Chamber E		Filter		EIRP				
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (1852.4MHz)											
3.70	-51.1	H	3.0	-15.1	38.6	1.0	-52.7	-13.0	-39.7		
5.66	-51.1	H	3.0	-15.5	38.6	1.0	-51.6	-13.0	-38.6		
7.41	-67.4	H	3.0	-9.7	37.8	1.0	-46.5	-13.0	-33.5		
3.70	-65.5	V	3.0	-15.6	38.6	1.0	-53.2	-13.0	-40.2		
5.65	-67.8	V	3.0	-14.0	38.6	1.0	-51.6	-13.0	-38.6		
7.42	-68.6	V	3.0	-15.1	37.8	1.0	-47.8	-13.0	-34.0		
Mid Channel (1880MHz)											
3.76	-44.4	H	3.0	-14.3	38.6	1.0	-51.9	-13.0	-38.9		
5.64	-66.4	H	3.0	-12.2	38.5	1.0	-49.7	-13.0	-36.7		
7.52	-67.6	H	3.0	-9.8	37.7	1.0	-46.5	-13.0	-33.5		
3.76	-65.5	V	3.0	-15.6	38.6	1.0	-53.2	-13.0	-40.2		
5.65	-67.8	V	3.0	-14.0	38.6	1.0	-51.6	-13.0	-38.6		
7.52	-68.7	V	3.0	-11.1	37.7	1.0	-47.8	-13.0	-34.8		
High Channel (1907.6MHz)											
3.81	-42.7	H	3.0	-12.4	38.7	1.0	-50.1	-13.0	-37.1		
5.72	-67.0	H	3.0	-12.6	38.5	1.0	-50.1	-13.0	-37.1		
7.56	-67.1	H	3.0	-9.7	37.7	1.0	-49.3	-13.0	-35.3		
3.82	-44.8	V	3.0	-14.6	38.7	1.0	-52.2	-13.0	-39.2		
5.72	-67.7	V	3.0	-13.6	38.5	1.0	-51.1	-13.0	-38.1		
7.63	-68.9	V	3.0	-11.1	37.7	1.0	-47.8	-13.0	-34.8		
Rev. 03.19.15											
WCDMA Band 2 Rel 99											
WCDMA Band 2 HSDPA											

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber F	-	3m Chamber F	-	Filter	-	EIRP	-			
Frequency SA reading Ant. Pol. Distance EIRP @ TX Ant End (dBm) Preamp Attenuator EIRP Limit Delta Notes										
Low Channel (1712.4MHz)										
3.42	-65.8	H	3.0	-17.1	34.6	1.0	-50.7	-13.0	-37.7	
5.14	-64.0	H	3.0	-11.3	34.2	1.0	-44.5	-13.0	-31.5	
6.85	-65.0	H	3.0	-9.4	33.9	1.0	-42.4	-13.0	-29.4	
8.56	-65.6	H	3.0	-7.7	32.7	1.0	-39.5	-13.0	-26.5	
3.42	-65.7	V	3.0	-11.4	34.6	1.0	-50.7	-13.0	-37.7	
5.14	-64.9	V	3.0	-11.9	34.2	1.0	-45.1	-13.0	-32.1	
6.85	-65.1	V	3.0	-9.7	33.9	1.0	-42.7	-13.0	-29.7	
8.56	-66.8	V	3.0	-9.1	32.7	1.0	-40.8	-13.0	-27.8	
Mid Channel (1732.4MHz)										
3.47	-65.3	H	3.0	-16.5	34.6	1.0	-50.9	-13.0	-37.0	
5.20	-64.8	H	3.0	-11.9	34.2	1.0	-45.1	-13.0	-32.1	
6.93	-66.3	H	3.0	-10.6	33.9	1.0	-43.5	-13.0	-30.5	
8.66	-66.1	H	3.0	-8.1	32.6	1.0	-39.7	-13.0	-26.7	
3.47	-65.3	V	3.0	-16.4	34.6	1.0	-50.9	-13.0	-37.0	
5.20	-64.5	V	3.0	-11.4	34.2	1.0	-44.5	-13.0	-31.5	
6.93	-65.1	V	3.0	-9.6	33.9	1.0	-42.5	-13.0	-29.5	
8.66	-67.3	V	3.0	-9.4	32.6	1.0	-41.1	-13.0	-28.1	
High Channel (1752.8MHz)										
3.51	-65.6	H	3.0	-16.8	34.5	1.0	-50.1	-13.0	-37.1	
5.26	-66.1	H	3.0	-11.7	34.2	1.0	-46.7	-13.0	-33.3	
7.01	-65.1	H	3.0	-9.3	33.9	1.0	-42.2	-13.0	-29.2	
8.76	-67.5	H	3.0	-7.3	32.6	1.0	-40.9	-13.0	-27.9	
3.51	-65.9	V	3.0	-16.7	34.5	1.0	-50.3	-13.0	-37.3	
5.26	-64.8	V	3.0	-11.6	34.2	1.0	-44.4	-13.0	-31.4	
7.01	-65.1	V	3.0	-9.5	33.9	1.0	-42.4	-13.0	-29.4	
8.76	-67.3	V	3.0	-9.3	32.6	1.0	-40.9	-13.0	-27.9	
High Channel (1752.8MHz)										
3.51	-66.1	H	3.0	-16.6	34.5	1.0	-50.1	-13.0	-37.1	
5.26	-65.5	H	3.0	-11.1	34.2	1.0	-46.7	-13.0	-33.6	
7.01	-65.1	H	3.0	-9.1	33.9	1.0	-42.2	-13.0	-33.2	
8.76	-68.1	H	3.0	-6.8	36.9	1.0	-44.7	-13.0	-31.7	
3.51	-66.4	V	3.0	-17.1	34.5	1.0	-50.5	-13.0	-37.5	
5.26	-65.4	V	3.0	-11.5	34.2	1.0	-46.4	-13.0	-34.2	
7.01	-66.1	V	3.0	-9.1	36.1	1.0	-46.0	-13.0	-33.2	
8.76	-67.4	V	3.0	-8.2	36.9	1.0	-44.1	-13.0	-31.1	

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END OF REPORT

10. SETUP PHOTOS

Please refers to 12124122-EP1V1